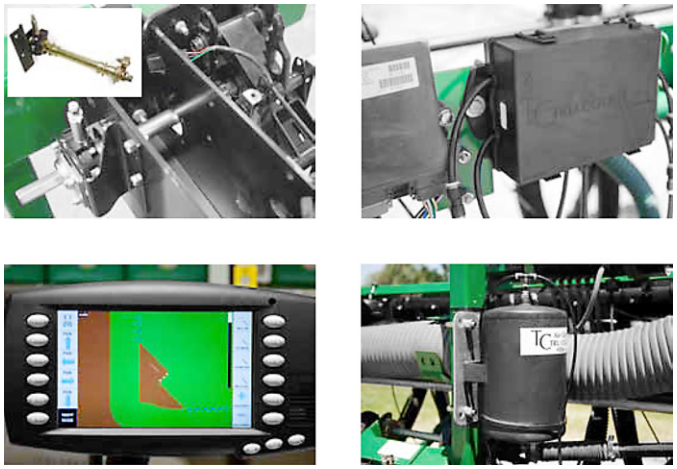
Installation and Reference

Swath Command™ Section Control

Great Plains
Manufacturing, Inc.
www.greatplainsmfg.com

Read the installation manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!



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Illustrations may show optional equipment or components not supplied with your kit.

ORIGINAL INSTRUCTIONS

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Important Safety Information

Look for Safety Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Be Aware of Signal Words

Signal words designate a degree or level of hazard seriousness.

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

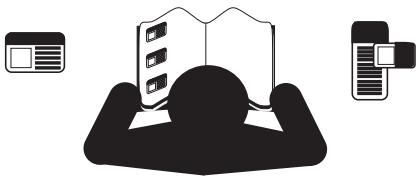
CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Prepare for Emergencies

- ▲ *Be prepared if a fire starts*
- ▲ *Keep a first aid kit and fire extinguisher handy.*
- ▲ *Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.*

Be Familiar with Safety Decals

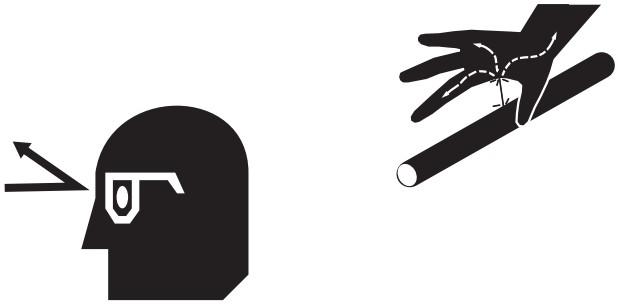
- ▲ *Read and understand "**Safety Decals**" in the Operator manual.*
- ▲ *Read all instructions noted on the decals.*
- ▲ *Keep decals clean. Replace damaged, faded and illegible decals.*



Wear Protective Equipment

- ▲ *Wear protective clothing and equipment.*
- ▲ *Because prolonged exposure to loud noise can cause hearing impairment or hearing loss, wear suitable hearing protection such as earmuffs or earplugs.*
- ▲ *Because working on equipment safely requires your full attention, avoid wearing entertainment headphones while perform the installation.*

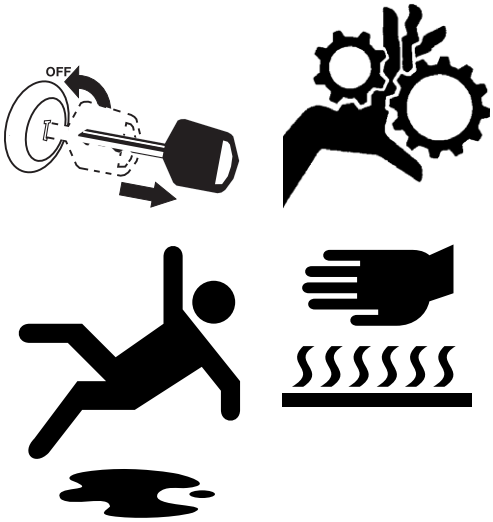
Avoid High Pressure Fluids



Observe normal precautions for hitch hydraulic connections and disconnections. Escaping fluid under pressure can penetrate the skin, causing serious injury.

- ▲ *Avoid the hazard by relieving pressure before disconnecting hydraulic lines.*
- ▲ *Wear protective gloves and safety glasses or goggles when working with hydraulic systems.*
- ▲ *If an accident occurs, seek immediate medical assistance from a physician familiar with this type of injury.*

Practice Safe Maintenance



- ▲ *Understand procedure before doing work. Use proper tools and equipment. Refer to this manual for additional information.*
- ▲ *Work in a clean, dry area.*
- ▲ *Lower the planter, put tractor in park, turn off engine, and remove key before performing maintenance.*
- ▲ *Make sure all moving parts have stopped and all system pressure is relieved.*
- ▲ *Allow planter to cool completely.*
- ▲ *Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on planter.*
- ▲ *Inspect all parts. Make sure parts are in good condition and installed properly.*
- ▲ *Remove buildup of grease, oil or debris.*
- ▲ *Remove all tools and unused parts from planter before operation.*

3PYP/3PYPA Fold Hazard

DANGER

Unstable Heavy Overhead Object:
Under no circumstances ever leave the 3PYP/A planter in a ***partially*** *unfolded state. Wings could fall suddenly if a circuit opens or fails. Wings may settle in any case. Working on fully folded wings is not recommended due to the height.*

General Information

These instructions explain how to install and set up the Swath Command™ Section Control system.

This manual also provides reference information for a factory-installed Swath Command™ Section Control system.

With the optional Swath Command™ system, all row unit final drive chains are clutch-controlled. Swath Command™ can turn seed metering on and off for 6 to 8 sections[a] of rows. Using geolocation[b] information you provide to the system, seeding can be disabled when row units cross non-planting or previously-planted areas.

Prerequisites

For a field installation, verify this information before opening cartons or beginning disassembly:

- Verify that you have the correct kit (step 1, page 6).
- Verify seed monitor compatibility (step 2, page 6).
- Verify that you have the tools required (page 7).

Components

A field installation kit includes these new components:

- air-operated row unit clutches
- solenoid valves
- compressor, tank and air delivery tubing
- CANbus valve control module
- DICKEY-john® A5 section control console (supplementing the existing A1or AI110)

These existing planter components are removed:

- electric section clutches (two or three)
- final meter drive input sprockets at rows

There will be fasteners left over.

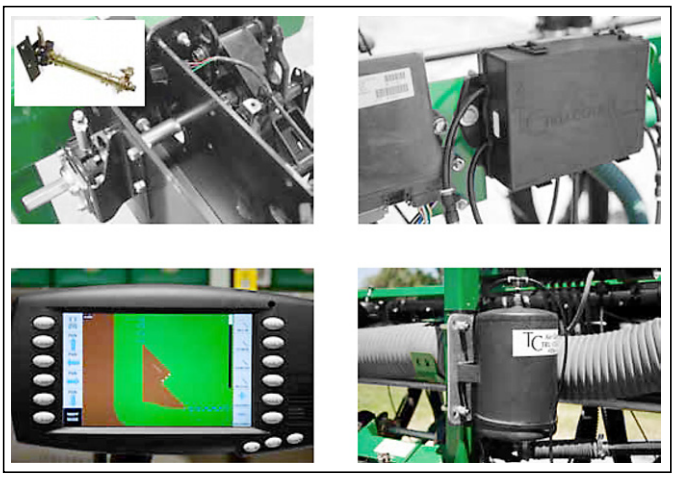


Figure 1 31548
Swath Command™ Components

Additional Components Always Required

Whether factory or field-installed, these optional components are dealer- or user-installed, and must be configured prior to use:

- geolocation receiver, such a Trimble® AgGPS®262 (available from Great Plains).
- coordinate augmentation data source, such as a Trimble® AgGPS®900 RTK rover radio (available from Great Plains)

Additional Components That May Be Required

Field installation:

- For a pull-type planter with a hydraulic tongue, manufactured prior to 2012, order one or two sets of 404-228D component mounting brackets and fasteners (see step 97 on page 15).

Note: See “**Options**” in Operator manual 403-857M for component and accessory ordering information.

a. Controlling a larger number of sections requires field installation of additional solenoid valves and CANbus modules. It also requires sub-inch precision geolocation augmentation data.
b. The system requires a source of sub-meter geolocation data, usually via differential satellite positioning system, such as DGPS. The antenna, receiver and cable for this are not included in the system. Further, enhanced resolution geolocation data may require additional receiver capability and may require subscription from an augmentation service provider.

Models and Kits Covered

This manual provides information for Swath Command™ system on the following specific models of Yield-Pro® planters. Kit part numbers are for field-install kits.

Planter Model	Kit
3PYP-1236	402-393A
3PYP-1238	402-393A
3PYP-1240	402-393A
3PYP-1630	402-394A
3PYP-2320	402-384A
3PYP-24TR36	402-390A
3PYP-24TR38	402-391A
3PYP-24TR40	402-392A
3PYP-3115	402-383A
3PYP-32TR30	402-389A
3PYPA-1236	402-393A
3PYPA-1238	402-393A
3PYPA-1240	402-393A
3PYPA-1630	402-394A
3PYPA-24TR36	402-390A
3PYPA-24TR38	402-391A
3PYPA-24TR40	402-392A
3PYPA-3115	402-383A
3PYPA-32TR30	402-389A
YP1225-1230	402-395A
YP1225-16TR36	402-398A
YP1225-1820	402-399A
YP1225-2315	402-397A
YP1225-24TR	402-396A
YP1225A-1230	402-395A
YP1225A-16TR36	402-398A
YP1225A-1820	402-399A
YP1225A-2315	402-397A
YP1225A-24TR	402-396A
YP1625-1236	402-393A
YP1625-1630	402-380A
YP1625-1670	402-380A
YP1625-2420	402-384A
YP1625-24TR36	402-379A
YP1625-3115	402-383A
YP1625-32TR	402-381A
YP1625A-1236	402-393A
YP1625A-1630	402-380A
YP1625A-1670	402-380A
YP1625A-2420	402-384A
YP1625A-24TR36	402-379A
YP1625A-3115	402-383A
YP1625A-32TR	402-381A
YP2425-2430	402-387A
YP2425-2470	402-387A
YP2425-3620	402-388A
YP2425-4715	402-386A
YP2425-48TR	402-385A
YP2425A-2430	402-387A
YP2425A-2470	402-387A
YP2425A-3620	402-388A
YP2425A-4715	402-386A
YP2425A-48TR	402-385A
YP2425F-2470	402-387A
YP3025-1230	402-403A
YP3025-1270	402-403A
YP3025-16TR36	402-405A
YP3025-1820	402-404A
YP3025-2315	402-401A
YP3025-2335	N/A[a]
YP3025-2415	402-402A
YP3025-24TR	402-400A
YP3025-24TR70	402-400A
YP3025-24TR75	402-400A
YP3025-3610	N/A[a]
YP3025A-1230	402-403A
YP3025A-1270	402-403A
YP3025A-16TR36	402-405A
YP3025A-1820	402-404A
YP3025A-2315	402-401A
YP3025A-2335	N/A[a]
YP3025A-2415	402-402A
YP3025A-24TR	402-400A
YP3025A-24TR70	402-400A
YP3025A-24TR75	402-400A
YP3025A-3610	N/A[a]
YP4025-1630	402-377A
YP4025-1670	402-377A
YP4025-2420	402-384A
YP4025-24TR36	402-406A
YP4025-3115	402-375A
YP4025-3135	N/A[a]
YP4025-3215	402-378A
YP4025-32TR	402-376A
YP4025-32TR70	402-376A
YP4025-4810	N/A[a]
YP4025A-1630	402-377A
YP4025A-1670	402-377A
YP4025A-2420	402-384A
YP4025A-24TR36	402-406A
YP4025A-3115	402-375A
YP4025-3135	N/A[a]
YP4025A-3215	402-378A
YP4025A-32TR	402-376A
YP4025A-32TR70	402-376A
YP4025A-4810	N/A[a]
YP4025AF-1670	402-377A
YP4025F-1630	402-377A
YP4025F-1670	402-377A
YP4425A-2422	402-384A

a. Not Available. Swath Command™ is not presently available for row spacings at or below 13.8 inches (35 cm)

Related Documents

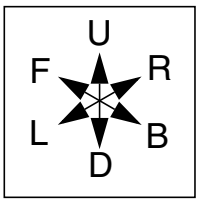
Have your planter Operator and Parts manual available during installation. Also have the following manuals available:

403-857M	Swath Command operation manual
11001-1508	DICKEY-john® Planter/Drill Control User Level 1 Operator's Manual
11001-1501	DICKEY-john® Planter/Drill Control User Level 2&3 Operator's Manual
11001-1561A	DICKEY-john® Auto Section Control System Operator's Manual (or equivalent manual for a different brand of swath controller)
56110-00	Trimble® AgGPS®262 Satellite Receiver User Guide (or equivalent manual for a different geolocation data receiver)
55565-00	Trimble® AgGPS® 900 Radio (or equivalent manual for a different augmentation receiver)
-	Viair User's Manual for 35030-350C (or equivalent manual for other compressor)

Great Plains Planter Operator and Parts manuals are available as PDF files on the Great Plains web site:
Manuals > Planters

The DICKEY-john® manuals above are available as PDF files on the Great Plains web site:
Manuals > Planters > Service Information & Monitor Manuals

Notations and Conventions



"Left"/LH and "Right"/RH are facing in the direction of machine travel. An orientation rose in the line art illustrations shows the directions of Left, Right, Front, Back, Up, Down.

Call-Outs

① to ⑨ ⓐ to ⓩ	Single-digit or single-letter callouts identify components in the currently referenced Figure. These numbers may be reused for different items from page to page.
⑪ to ㉘	Two digit callouts represent the same existing (old) parts throughout this manual.
⑩① to ㉘⑧	Three digit callouts represent the same new parts throughout this manual.

This manual fully describes a system based on Great Plains-provisioned DICKEY-john® IntelliAg® seed monitor (A1 / AI110), and the DICKEY-john® A5 terminal and Great Plains Swath Command™ implement components.

It is possible to use aftermarket or customer-provisioned seed monitor, swath control terminal, geolocation receiver and clutch control air system. This manual provides only limited support for such installations, primarily reference data concerning clutch placement, clutch groupings and row geometry.

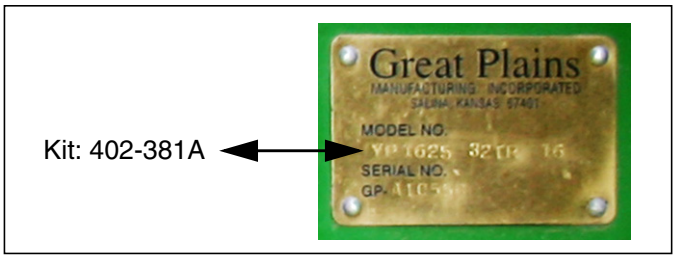
Prepare Planter

Verify Compatibility

1. Verify that you have the correct kit. Check your planter model number (from the serial number plate) against the kit part number table on page 4.

   If your planter is not listed (or has an N/A), stop. Contact your dealer.

   If the kit you have is not for your planter, stop. Contact your dealer.



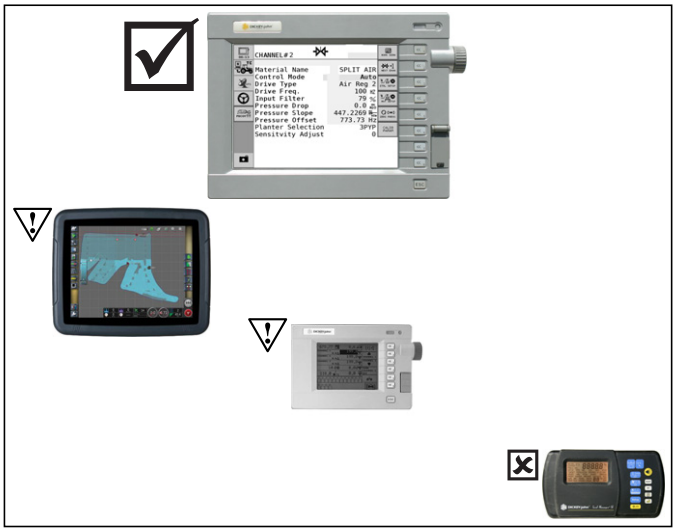
2. Verify that the planter has a compatible seed monitor.

   ☑ Verify that the monitor console for your planter is a DICKEY-john® IntelliAg® 10 inch color display, Model A1, A1+ or AI100.

   ▽! If you have a DICKEY-john® IntelliAg® 12 inch color display, Model AI120, and Swath Command™ was *not* factory-installed, have your dealer contact the factory.

   ▽! If you have a 5 inch monochrome IntelliAg® console, a separate console upgrade is required. Contact your dealer.

   ☒ If you have a Seed Manager™ SE console, the Swath Command™ Section Control kit is completely incompatible. Contact your dealer for kit return.



3. Plan the air clutch installation. Meter shafts run the entire length of each section (center or wing). Removal requires a clear path from at least one end of the shaft, into the workspace, for that length.

Horizontal-Fold 2-Section

In general, access to the drive shafts is easiest from the wing ends. The wings must be positioned such that the wing-end casters swing clear of the shaft path.

Horizontal-Fold 3-Section

The wings must be partially or fully folded for access to the center section drive shaft.

In general, access to the drive shafts is easiest from the wing ends. The wings must be positioned such that the wing-end casters swing clear of the shaft path.

YP24 and YP44: Wing drive shafts are in two segments with a coupler.

Stack-Fold

Updating the center section shaft must be done with the planter fully folded.

Updating the wing shafts must be done with the planter fully unfolded.

Tools Required

Shaft Locator Tool

Refer to Figure 2

Kit installation requires removal and re-installation of meter line shafts and their bearings. Bearing flanges must be aligned during re-installation. Great Plains offers[a] a tool kit to simplify this task, shown at right.

4. Check that alignment bolts (232) are set correctly. With the leading edge of the tool ① against a flat surface, the bolt sets the face ② of the tool perpendicular to that surface. Adjust jam nuts (238) as needed.

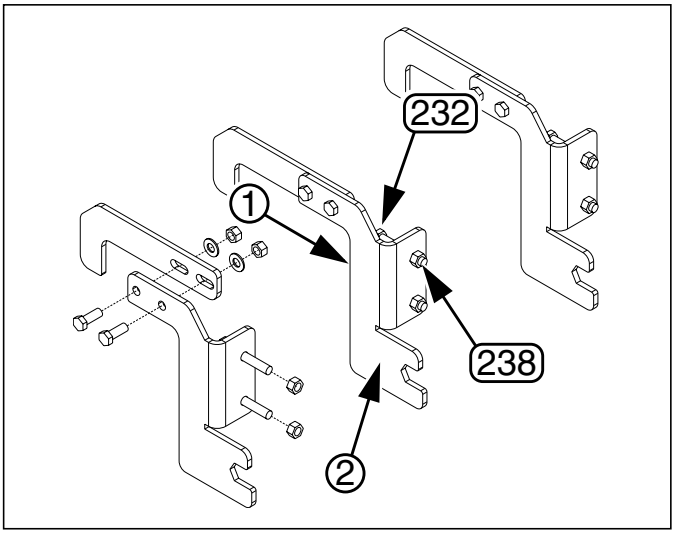


Figure 2 34066
402-270A Locator Tool Kit

Other Tools Required

- The tractor to be used afield with the upgraded planter must be present for spotting, unfolding, folding and final setup.
- The work area must have sufficient area for a partially unfolded planter (fully unfolded 3PYP/A), including clearance at each wing end for complete removal of wing-long meter drive shafts.
- Folding planter only: A fish wire or stiff fish tape may be needed to pull the air tubing through the left wing pull bar. If the fish line cannot easily be inserted through the pull bar, it will be necessary to remove the existing hoses and harnesses, and re-pull them with the air tubing.
- 3PYP/A planter only: The work area must have sufficient vertical clearance for a fully folded planter.
- The work area must be well illuminated, with a clear surface beneath for recovery of any dropped parts.
- One or more adjustable stand are recommended for supporting extended free shaft ends.
- The Operator and Parts manuals for the planter must be present. Check the Great Plains web to ensure they are current.
- Twin-Row only: The Seed Rate manual is needed if sprocket index settings need to be restored after the installation. For Air-Pro® models, have the 812-391C timing tool on hand for restoring index settings.
- Pre-2012 Hydraulic Tongue only: a drill with a $^{17}/_{32}$ inch (13.5 mm) bit and suitable pilot bit.
- A $^{1}/_{4}$ inch (6.3 mm) flat-face punch is needed for driving roll pins.

NOTICE

Machine Damage and Population Risks:
Use the locator tools or precision optical alignment. If a shaft has sag, excess bearing wear results. In more severe cases of bearing mis-alignment, a hard-to-turn shaft could cause excess chain wear, or drive system slippage and low populations on a ground-drive planter, and motor overheating on a hydraulic-drive planter.

- A cleaning rag and fine point indelible marker are recommended for identifying the location and orientation of removed shafts.
- A note pad is recommended for recording locations of some re-used and/or replaced components. A digital camera may also be helpful.
- Only basic hand tools, including hex keys in fractional sizes, are otherwise required.
- Cable ties.

Prepare Planter

5. Move the planter to the work space.
6. Unfold the wings.
7. Lower the row units.
8. Shut down the tractor.
9. Unplug all electrical connections at planter hitch.

a. Great Plains dealers often have a locator kit on hand.

Replace Electric Clutches

Depending on planter model and drive type, there are two or three electric clutch assemblies that are replaced with a simple sprocket. Due to their electrical load, these cannot be left connected to the system harness, and without electrical control, would leave the drive system disabled.

Refer to Figure 3
(which depicts a clutch on a hydraulic drive 3PYP planter)
These clutches (27) are generally present at shaft ends, and may be secured on their shaft by set screw lock collars (15), roll pins, or both. Older assemblies may lack the oil shield (16) depicted at right.

10. Locate all the electric clutches on the planter.
11. Unplug the lead at each clutch.

Update one clutch at a time.

12. Measure from any convenient reference point to the center-line of a clutch output sprocket (24) (along the shaft). Make a record of this location. The replacement sprocket provided needs to align with the drive chain (12), and must be at this same position on the shaft (installed at step 18).
13. At the end of the shaft where you plan to remove a clutch, examine any components (1) mounted between the clutch and shaft end (and there may be none).

Note: Check your Parts manual to ensure that you know how these go back together.

14. Loosen or release spring on idlers (not shown) on chain (12).

NOTICE

Roll Pin Damage Risk:
If any roll pins need to be removed, drive them out carefully and save them. The kits do not include replacement roll pins.

15. Remove and save all components (except bearings, if possible), between shaft end, up to and including the outside clutch collar (15) or roll pin (not shown).

    Loosen bearings and/or brackets as needed to free shaft end. If may be necessary to free the other end of the shaft and slide it clear of the clutch. Take note of, and save, any removed components.
16. Lift chain (12) off clutch output sprocket (24). Remove the clutch assembly. It is not necessary to remove the sprocket, spacer and oil shield from the clutch. None of these parts are reused.

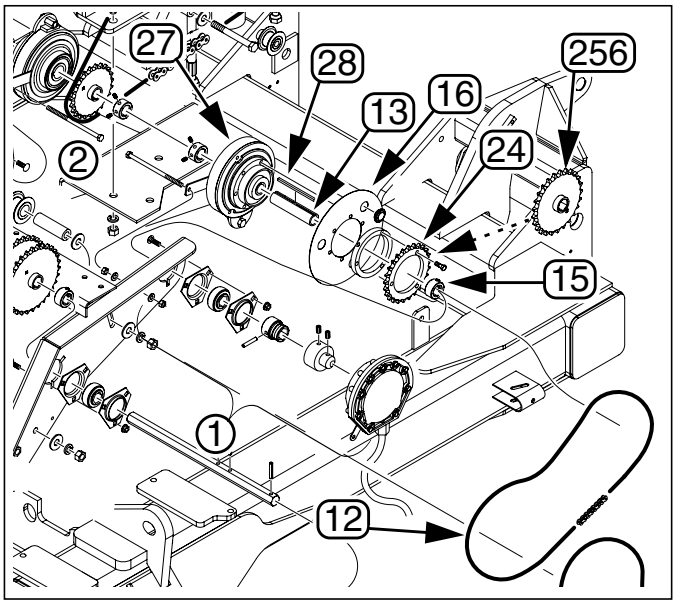


Figure 3
Typical Electric Clutch
25060

17. Remove the bushing (13) and key (28). These are not reused.
18. Select one new:
    (256) 808-309C SPKT 50C25 X 7/8 HEX BORE
    This is a plain 25 tooth sprocket with a $^{7}/_{8}$ inch hexagonal bore. It is stamped “25” on each side.
19. Slide sprocket (256) loosely onto the drive shaft. Loop the chain (12) over the sprocket.
20. Add one saved:
    (15) 402-025S LOCK COLLAR, 7/8 HEX W/ SET SC
    Slide it loosely onto the shaft.
21. As needed, reposition the shaft, bearings and brackets to its original placement.
22. Adjust the new sprocket (256) to the position recorded at step 12. Secure in place with collar (15) (or original roll pin) and the inside collar (2).
23. Reinstall any end-of-shaft components removed at step 15.
24. Engage idlers to set chain (12) to recommended slack. (See “**Chain Maintenance**” in the 403-857M Operator manual).
25. Repeat step 12 through step 24 for each clutch.

Install Air Clutches

Install Center Air Clutches

If the planter frame does not have a center section, for example Models YP1225 and YP1625, continue at "**Install Wing Air Clutches**" on page 12.

26. Connect the hitch hydraulics and harnesses at the tractor.
27. a. For Model 3PYP and 3PYPA, completely fold the wings.
    b. For all other Models, partially or completely fold the wings.
    This provides access to center section shaft ends.
28. Lower the openers.
29. Shut down the tractor. Disconnect hydraulics and harnesses at hitch.

Assess The Center Shaft

Refer to Figure 4
(which depicts a 3PYPA center section shaft)

30. At one end of the center section, measure the length of exposed meter drive shaft (14), from tip of shaft to row unit mount sidewall (not to bearing (26) face - the bearing may be relocated during this installation). Record the dimension.

Refer to Figure 5
(which depicts a 3PYP/A center section)

31. Mark the approximate end-of-shaft locations (1) on the tool bar (needed for step 42).
32. Locate the 30T shaft input sprocket (not shown):
    (23) 808-319C SPKT 50C30 X 7/8 HEX BORE
    Measure the position of this sprocket with reference to the row unit shanks on either side. Record these dimensions, and whether the sprocket is secured in place by no collars, one LH, one RH or two collars.
33. Along the entire length of the shaft, locate each pin hole and roll pin (not shown, and there may be none). Clean the shaft near each hole. Mark occupied holes (for example "I") and empty holes (for example "o").
34. Twin Row Only (Air-Pro® and finger meter only): Check for deliberate stagger (consistent difference sprocket tooth orientation at the meter sprocket). For the front row, note the tooth number at top dead center. Record that number and the T.D.C. tooth number for the rear row.

Note: Lock collar (not shown) locations, other than for shaft input sprocket, do not need to be recorded. The clutch layout drawings show the final locations of all collars.

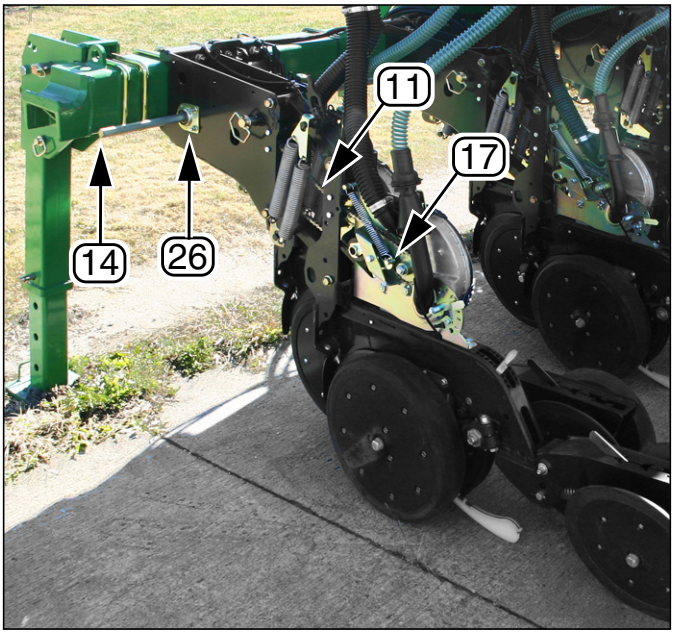


Figure 4 34056
Center Section Meter Shaft

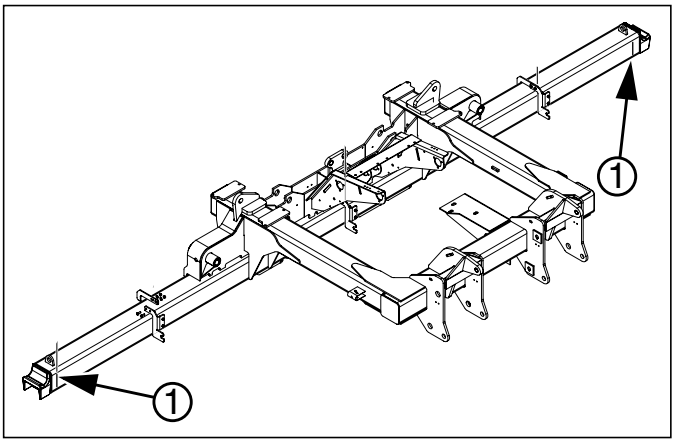


Figure 5 34067
Center Shaft End Points

Remove Center Shaft

Refer to Figure 6
(which depicts a 3PYPA center section shaft)

35. Relax the idlers on the chain driving the shaft input sprocket.
36. At each center section row, relax the row unit idlers (17) to slacken the final drive chain (12).
37. Along the line shaft (14):
    - loosen all lock collar set screws (not shown)
    - loosen all sprocket set screws (not shown)
    - carefully drive out and save roll pins (not shown)
38. Make arrangements to support the free shaft end (14). From one end, for example the RH end, begin driving the shaft toward the other end.
39. Use a rag to clean the free end of the shaft (14). Mark it (for example) “CTR LH END”. Shafts are often section-specific and not symmetrical end-to-end.
40. Continue driving the shaft (14) out. As the shaft exits each collar and sprocket, recover and save these parts. Some are re-used.

Remove Bearings (Conditional)

41. Check the materials list on the opener layout drawing for your kit, found in “**Swath Command™ Planter Clutch Layouts**”, pages 48 through 97.

    If the kit contains, for the center section, any:
    (106) 402-273K TRU-COUNT SINGLE ROW ASM or
    (144) 402-329K TRU-COUNT SHORT ROW SINGLE ASM
    do not remove the bearings at rows indicated by the drawing reference number for either of those clutch kits.

    Otherwise, remove and save the bearing assembly (26) and its fasteners, at every row.

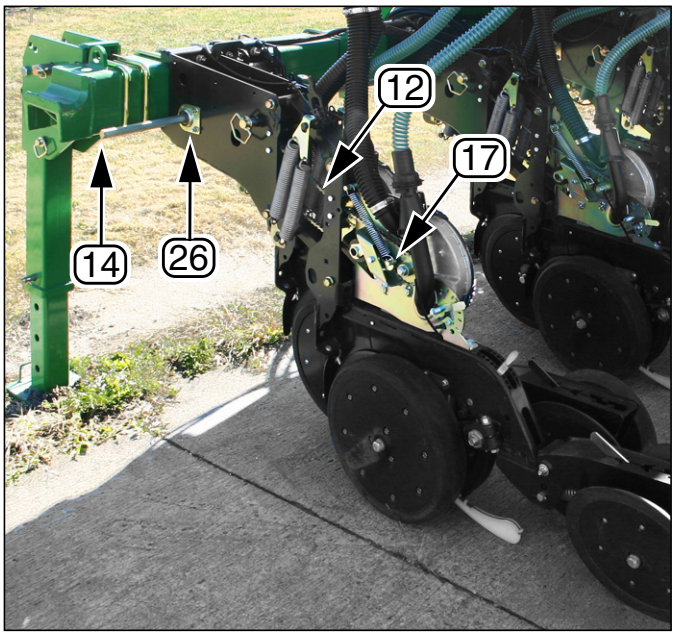


Figure 6
Center Section Line Shaft
34056

Attach Locator Tools

Refer to Figure 7
(which depicts a 3PYP/A center section)

42. In between the shaft-end marks (1) made at step 31, make additional marks at the positions:
    1/6 (17%), 1/2 (50%) and 5/6 (83%)
    in between the end marks.
43. Attach one locator tool (104) as close as practical to each marked location. Each locator equally supports 1/3 of the shaft length at these positions.

    Make sure tool is perpendicular to tool bar, and snug front-to-back.

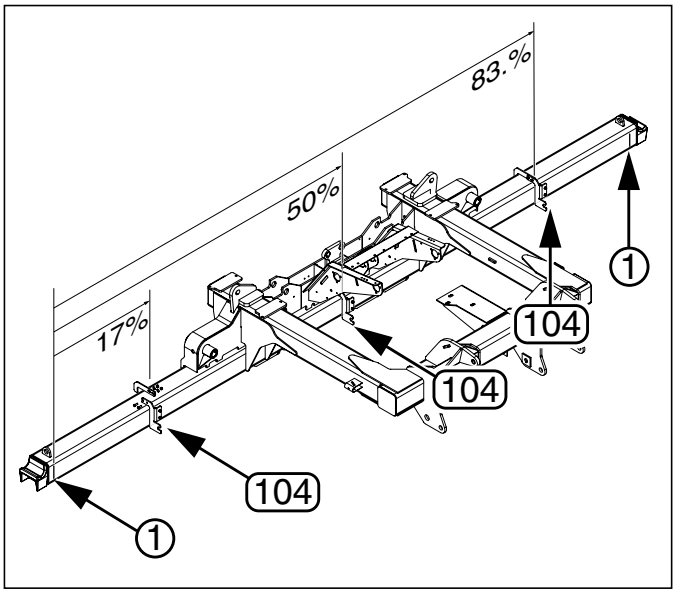


Figure 7
Attach Center Shaft Locators
34067

Install Center Air Clutches

44. Consult the layout drawing for your kit (found in pages 48 through page 97).
45. Note which types of clutch assemblies are supplied in your kit (there are six different total assemblies, and as many as four combinations per kit). Find the detailed assembly drawing and instructions for each in the Appendix, found on pages listed at right.
46. Working from left to right, install the specified components ahead of, at and in between each row. see the checklist at right for items to watch out for during row installation.

Align Center Shaft

When the right-most row clutch has been installed, and any final lock collar or roll pin installed, make final shaft adjustments.

47. Check that all bearing flangettes are slightly loose.

Working from left to right:

48. Push the line shaft fully into the hex cut in a locator tool.
49. Tighten flangette nuts on bearings immediately left and right of the locator tool.
50. Repeat step 48 and step 49 for the remaining tools.

At the left end of the center section:

51. Being careful to not disturb the shaft position, tighten the flangette nuts of the left end row.

At the right end of the center section:

52. Being careful to not disturb the shaft position, tighten the flangette nuts of the right end row.

Working from left to right:

53. Being careful to not disturb the shaft position, tighten the flangette nuts at each row.

At the left end of the shaft:

54. Adjust the left-right position of the shaft to match the measurement taken at step 30.

Working from left to right:

55. Slide each lock collar into gentle contact with the associated bearing shown in the layout drawing. Secure the set screws.
56. Adjust the line shaft input sprocket so that the chain is vertical. Secure the sprocket set screws.
57. Re-engage meter drive chain idlers. See special instructions at right for twin-row chains.
58. Remove the locator tools. This completes the center section clutch installation.

Clutch Assembly Installation Details

402-273K-ASY: page 37
402-275K-ASY: page 39
402-276K-ASY: page 41
402-279K-ASY: page 43
402-281K-ASY: page 45
402-329K-ASY: page 47

Row Item Checklist

- Route shaft through locator tools as encountered.
- Add lock collar left of clutch where specified.
- Install roll pins as marked on shaft.
- Loop meter chain(s) when installing clutch.
- Add lock collar right of clutch where specified.
- Add shaft input sprocket when chain encountered. Be sure to re-install any lock collars as recorded at step 32.
- Do not tighten any collar or sprocket set screws during row installation.
- Do not remove any chain slack during row installation.

Twin Row Chain Alignment

If the planter is only ever used:

- with Singulator Plus™ (green wheel) meters, or
- at seed spacings below 6½ inches (16.5 cm), or
- with Air-Pro® seed discs having more than 24 pockets,

then skip this alignment.

If no deliberate sprocket indexing was noted at step 34, re-engage meter chains with both meter sprockets in the same tooth orientation (for example, with both sprockets having tooth 1 at top dead center).

Otherwise, engage the chain for the front meter as noted at step 34, and engage or adjust the chain for the rear meter as noted.

Engage both idlers. Recheck the tooth number relationship.

Install Wing Air Clutches

59. Connect the hitch hydraulics and harnesses at the tractor.
60. a. For Model 3PYP and 3PYPA, completely unfold the wings.

    b. For all other Models,
    Refer to Figure 8: take note of the location of the outside end of the line shaft (14). Partially or completely fold the wings, leaving the wing-end casters ① oriented so that they do not obstruct shaft removal.
61. Lower the openers.
62. Shut down the tractor. Disconnect hydraulics and harnesses at hitch.

Start with the left wing.

Assess The Wing Shaft

Refer to Figure 8
(which depicts a YP24 left wing shaft)

63. At one end of the wing, measure the length of exposed meter drive shaft (14), from tip of shaft to row unit mount sidewall (not to bearing (26) face - the bearing may be relocated during this installation). Record the dimension.

Refer to Figure 9
(which depicts a YP40 left wing)

64. Mark the approximate end-of-shaft locations ① on the tool bar (needed for step 76).
65. Locate the 30T shaft input sprocket (not shown):
    (23) 808-319C SPKT 50C30 X 7/8 HEX BORE
    Measure the position of this sprocket with reference to the row unit shanks on either side. Record these dimensions, and whether the sprocket is secured in place by no collars, one LH, one RH or two collars.
66. Locate any coupler on the shaft. Decide on a removal/re-insertion strategy (both sections from one end, or each section from each end).
67. Along the entire length of the shaft, locate each pin hole and roll pin (not shown, and there may be none, and there may be one coupler with two pins). Clean the shaft near each hole. Mark occupied holes (for example “I”) and empty holes (for example “o”).
68. Twin Row Only (Air-Pro® and finger meter only): Check for deliberate stagger (consistent difference sprocket tooth orientation at the meter sprocket). For the front row, note the tooth number at top dead center. Record that number and the T.D.C. tooth number for the rear row.

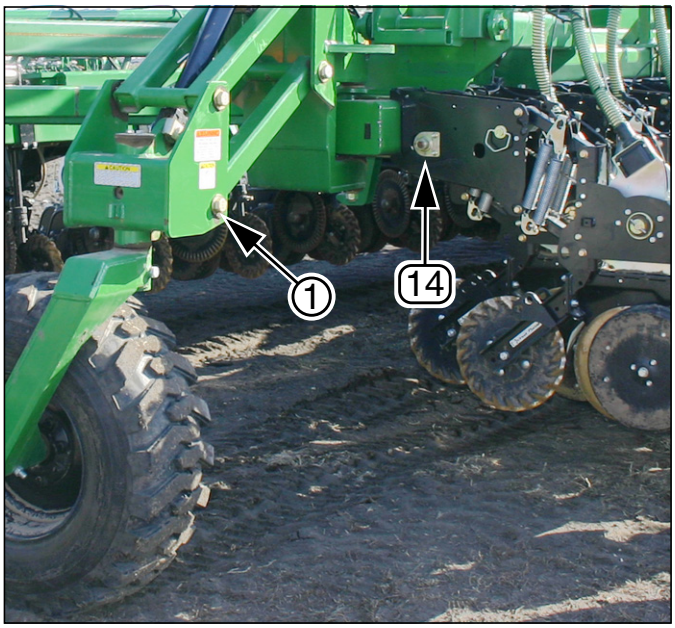


Figure 8 34069
Wing End Line Shaft

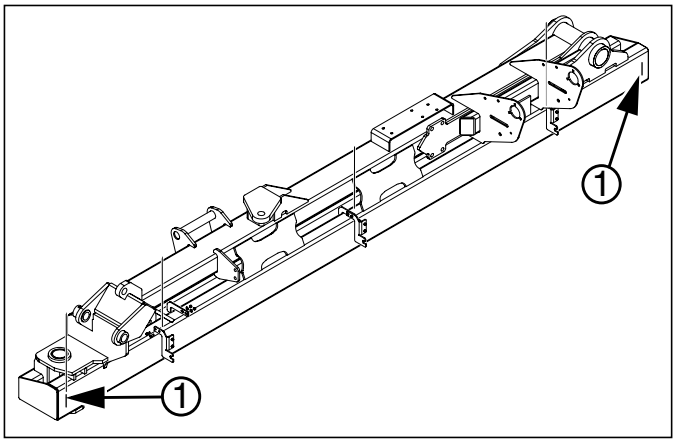


Figure 9 34070
Wing Shaft End Points

Note: Lock collar (not shown) locations, other than for line shaft input sprocket, do not need to be recorded. The clutch layout drawings show the final locations of all collars.

Remove Wing Shaft

Refer to Figure 10
(which depicts a YP24 wing shaft)

69. Relax the idlers on the chain driving the shaft input sprocket.
70. At each center section row, relax the row unit idlers (not shown) to slacken the final drive chain (12).
71. Along the meter drive shaft (14):
    - loosen all lock collar set screws (not shown)
    - loosen all sprocket set screws (not shown)
    - carefully drive out and save roll pins (not shown)
    - remove and save any coupler
72. Make arrangements to support the free shaft end (14). From one end, for example the RH end, begin driving the shaft toward the other end.
73. Use a rag to clean the free end of the shaft (14). Mark it (for example) “LW LH END”. Shafts are often section-specific and not symmetrical end-to-end.
74. Continue driving the shaft (14) out. As the shaft exits each collar and sprocket, recover and save these parts. Some are re-used.

Remove Bearings (Conditional)

75. Check the materials list on the opener layout drawing for your kit, found in “**Swath Command™ Planter Clutch Layouts**”, pages 48 through 97.

    If the kit contains, for the center section, any:
    (106) 402-273K TRU-COUNT SINGLE ROW ASM or
    (144) 402-329K TRU-COUNT SHORT ROW SINGLE ASM
    do not remove the bearings at rows indicated by the drawing reference number for either of those clutch kits.

    Otherwise, remove and save the bearing assembly (26) and its fasteners, at every row.

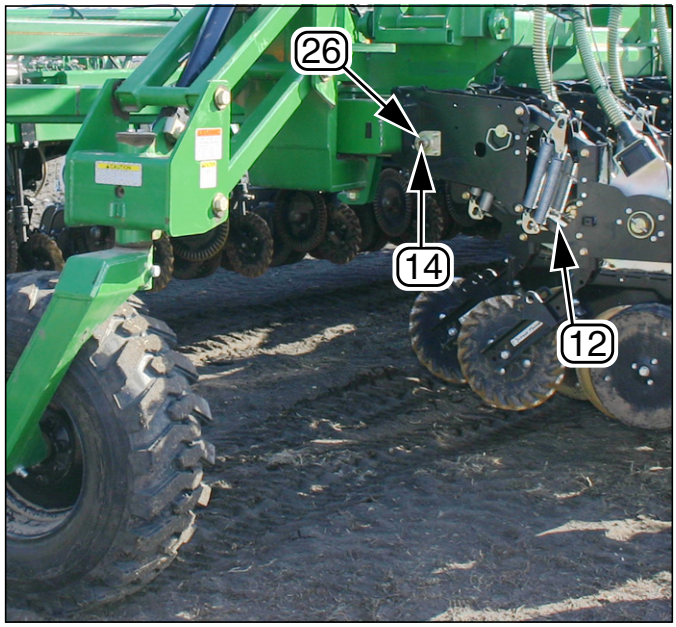


Figure 10 34069
Wing Line Shaft

Attach Locator Tools

Refer to Figure 11
(which depicts a YP40 wing)

76. In between the shaft-end marks (1) made at step 31, make additional marks at the positions:
    $\frac{1}{6}$ (17%), $\frac{1}{2}$ (50%) and $\frac{5}{6}$ (83%)
    in between the end marks.
77. Attach one locator tool (104) as close as practical to each marked location. Each locator equally supports $\frac{1}{3}$ of the shaft length at these positions.

    Make sure tool is perpendicular to tool bar, and snug front-to-back.

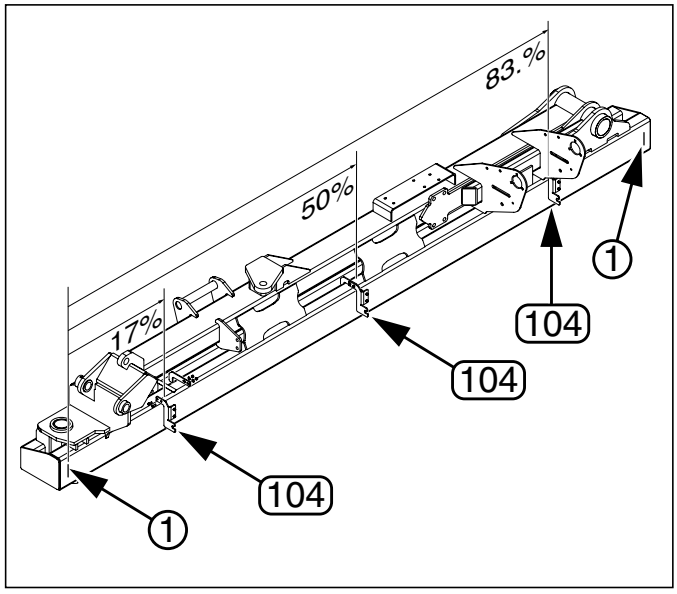


Figure 11 34070
Attach Wing Shaft Locators

Install Wing Air Clutches

78. Consult the layout drawing for your kit (found in pages 48 through page 97).
79. Note which types of clutch assemblies are supplied in your kit (there are six different total assemblies, and as many as four combinations per kit). Find the detailed assembly drawing and instructions for each in the Appendix, found on pages listed at right.
80. Working from left to right, install the specified components ahead of, at and in between each row. see the checklist at right for items to watch out for during row installation.
81. When all rows are updated, re-install any coupler.

Align Wing Shaft

When the right-most row clutch is installed, and any final collar or roll pin installed, make final shaft adjustments.

82. Check that all bearing flangettes are slightly loose.

Working from left to right:

83. Push the shaft fully into the hex cut of a locator tool.
84. Tighten flangette nuts on bearings immediately left and right of the locator tool.
85. Repeat step 83 and step 84 for the remaining tools.

At the left end of the center section:

86. Being careful to not disturb the shaft position, tighten the flangette nuts of the left end row.

At the right end of the center section:

87. Being careful to not disturb the shaft position, tighten the flangette nuts of the right end row.

Working from left to right:

88. Being careful to not disturb the shaft position, tighten the flangette nuts at each row.

At the left end of the shaft:

89. Adjust the left-right position of the shaft to match the measurement taken at step 63.

Working from left to right:

90. Slide each lock collar into gentle contact with the associated bearing shown in the layout drawing. Secure the set screws.
91. Adjust the line shaft input sprocket so that the chain is vertical. Secure the sprocket set screws.
92. Re-engage meter drive chain idlers. See special instructions at right for twin-row chains.
93. Remove the locator tools. This completes a wing clutch installation.
94. Repeat step 63 through step 93 for the right wing.

Clutch Assembly Installation Details

402-273K-ASY: page 37
402-275K-ASY: page 39
402-276K-ASY: page 41
402-279K-ASY: page 43
402-281K-ASY: page 45
402-329K-ASY: page 47

Row Item Checklist

- Route shaft through locator tools as encountered.
- Add lock collar left of clutch where specified.
- Install roll pins as marked on shaft.
- Loop meter chain(s) when installing clutch.
- Add lock collar right of clutch where specified.
- Add shaft input sprocket when chain encountered. Be sure to re-install any lock collars as recorded at step 32.
- Do not tighten any collar or sprocket set screws during row installation.
- Do not remove any chain slack during row installation.

Twin Row Chain Alignment

If the planter is only ever used:

- with Singulator Plus™ (green wheel) meters, or
- at seed spacings below $6\frac{1}{2}$ inches (16.5 cm), or
- with Air-Pro® seed discs having more than 24 pockets,

skip this alignment.

If no deliberate sprocket indexing was noted at step 34, re-engage meter chains with both meter sprockets in the same tooth orientation (for example, with both sprockets having tooth 1 at top dead center).

Otherwise, engage the chain for the front meter as noted at step 34, and engage or adjust the chain for the rear meter as noted.

Engage both idlers. Recheck the tooth number relationship.

Install Compressor

Compressor installation varies by hitch type:

Pull Type, Hydraulic Tongue: below
Pull Type, Three-Point: page 17
3PYP/A Three-Point: page 18

Hydraulic Tongue (H.T.) Compressor Installation

Refer to Figure 12

If the hydraulic tongue already has a compressor mount bracket (209) available, continue at "**Install Compressor Mount (H.T.)**" on page 16.

Note: 2012 and later hydraulic tongues have these brackets. Earlier tongues do not, and must be upgraded with parts purchased separately (see parts list in step 97).

Install H.T. Mount Bracket(s)

Swath Command™ kits do not include mount brackets. The necessary parts are presumed to have been separately ordered.

Prepare H.T. Hitch Weldment

Refer to Figure 13 (showing right side of hitch)

Note: By convention the Swath Command™ compressor is installed on the right side of the hitch. The second mount bracket, on the left side, would be used for a Row-Pro™ compressor.

95. Mark and center-punch locations as shown near the leading right edge of the hitch weldment. If two sets of mount brackets are on hand, mark holes on the left side as well (also near leading edge).

96. Use a pilot bit and a $^{17}/_{32}$ inch (13.5 mm) bit to create two or four holes.

Affix H.T. Bracket(s)

Refer to Figure 12 and Figure 13

97. Select one or two:

(209) 404-228D HYD HITCH COMP MOUNT BRACKET

and two or four sets:

(227) 802-091C HHCS 1/2-13X1 1/2 GR5
(246) 804-015C WASHER LOCK SPRING 1/2 PLT
(239) 803-020C NUT HEX 1/2-13 PLT

Position each bracket (209) forward of the hitch weldment. Insert a bolt (227) from the outside. Secure with lock washers (246) and nuts (239).

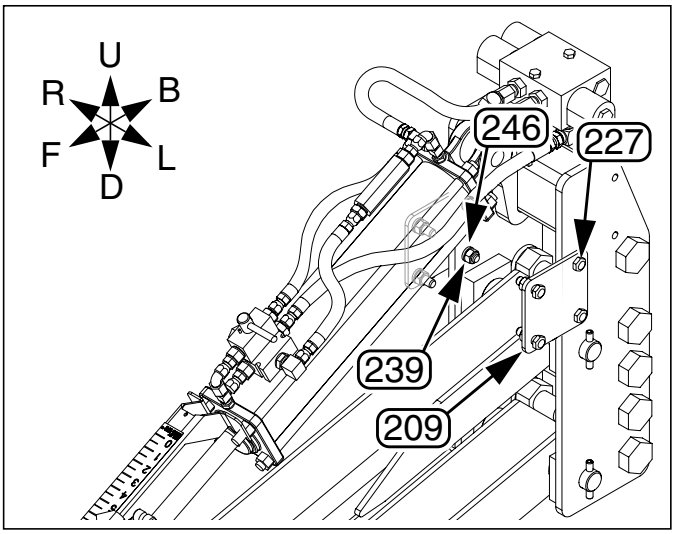


Figure 12
H.T. Compressor Mount Check
34072

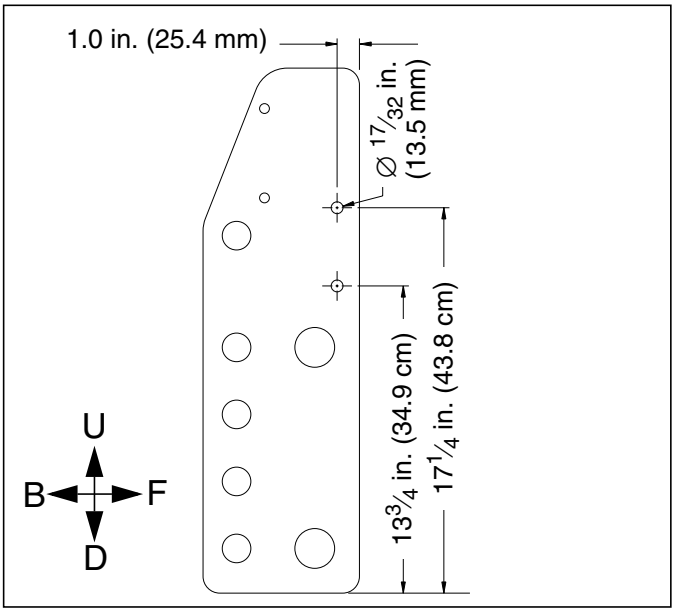


Figure 13
H.T. Mount Hole Locations
34073

Install Compressor Mount (H.T.)

Note: By convention, the Swath Command™ compressor is installed on the right hand side of the hitch. If a Row-Pro™ compressor is already installed there, the Swath Command™ compressor may be installed on the left hand side.

Refer to Figure 14

98. Select one new:
    (211) 404-861H 12V COMP MOUNT WELDMENT
    and two sets:
    (227) 802-091C HHCS 1/2-13X1 1/2 GR5
    (247) 804-016C WASHER FLAT 1/2 SAE PLT
    (246) 804-015C WASHER LOCK SPRING 1/2 PLT
    (239) 803-020C NUT HEX 1/2-13 PLT

    Insert the bolts (227) from behind the bracket (209). Add the mount weldment (211). Secure with flat washers (247), lock washers (246) and nuts (239).

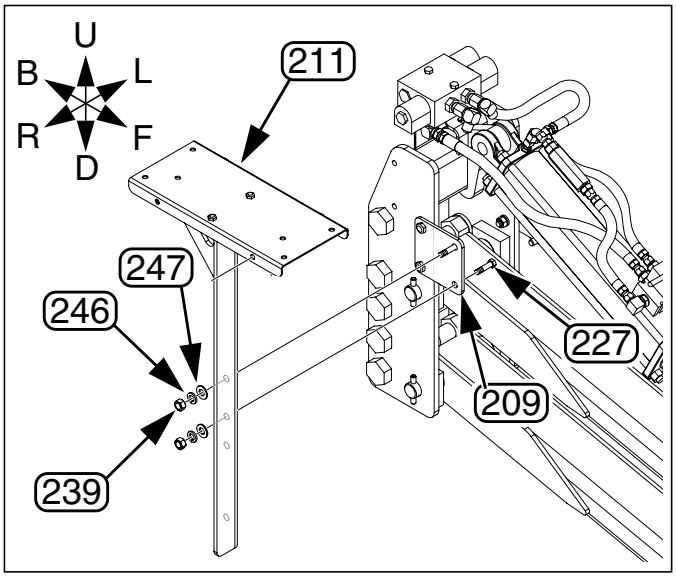


Figure 14 34075
H.T. Compressor Mount

Install Compressor (H.T.)

Refer to Figure 15

99. If the side covers ((207) and (208)) and top (206) are pre-installed on the mount weldment (211), and the compressor is not pre-installed, remove the covers, saving the fasteners.

100. Select one:
    (263) 823-330C TRU-COUNT COMPRESSOR ASSEMBLY

    Orient the compressor assembly so that the valve ① is to the outside. Secure it to the platform of the mount weldment (211) using the fasteners provided.

Install Compressor Covers (H.T.)

101. Select one:
    (207) 404-226D TC COMPRESSOR COVER SIDE R

    Orient the side cover (207) with the access port ② at the valve ①. Loosely secure cover to mount with provided fasteners.

102. Select one:
    (208) 404-227D TC COMPRESSOR COVER SIDE L

    Loosely secure cover to mount with provided fasteners.

103. Select one:
    (206) 404-225D 12 COMPRESSOR COVER TOP

    Completely secure top to side covers with provided fasteners.

104. Continue at "**Install Valve Blocks**" on page 19.

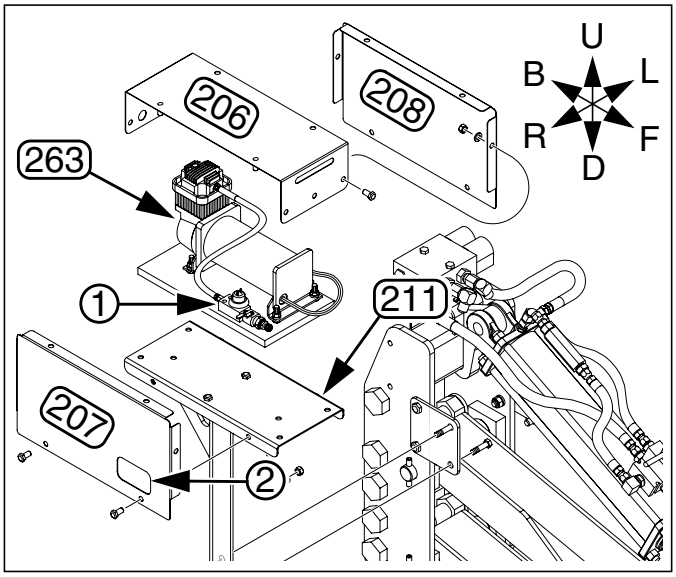


Figure 15 34075
H.T. Compressor

Pull-Type 3-Point Compressor Installation

Note: By convention, the Swath Command™ compressor is installed on the right hand side of the hitch. If a Row-Pro™ compressor is already installed there, the Swath Command™ compressor may be installed on the left hand side.

Refer to Figure 16

105. Select one each new:

    (211) 404-861H 12V COMP MOUNT WELDMENT
    (254) 806-060C U-BOLT 1/2-13 X 6 1/32 X 7 1/4

    and two sets:

    (247) 804-016C WASHER FLAT 1/2 SAE PLT
    (246) 804-015C WASHER LOCK SPRING 1/2 PLT
    (239) 803-020C NUT HEX 1/2-13 PLT

    Place the U-bolt on the 3-point hitch cross-tube, to the right of the center riser. Loosely secure the mount weldment (211) with flat washers (247), lock washers (246) and nuts (239). Adjust mount position so that the left edge of the platform clears the riser by approximately an inch (5 cm).

106. If the side covers ((207) and (208)) and top (206) are pre-installed on the mount weldment (211), and the compressor is not pre-installed, remove the covers, saving the fasteners.

Install Compressor (3P)

107. Select one:

    (263) 823-330C TRU-COUNT COMPRESSOR ASSEMBLY

    Orient the compressor assembly so that the valve ① is to the front. Secure it to the platform of the mount weldment (211) using the fasteners provided.

Install Compressor Covers (3P)

108. Select one:

    (207) 404-226D TC COMPRESSOR COVER SIDE R

    Orient the side cover (207) with the access port ② at the valve ①. Loosely secure cover to mount with provided fasteners.

109. Select one:

    (208) 404-227D TC COMPRESSOR COVER SIDE L

    Loosely secure cover to mount with provided fasteners.

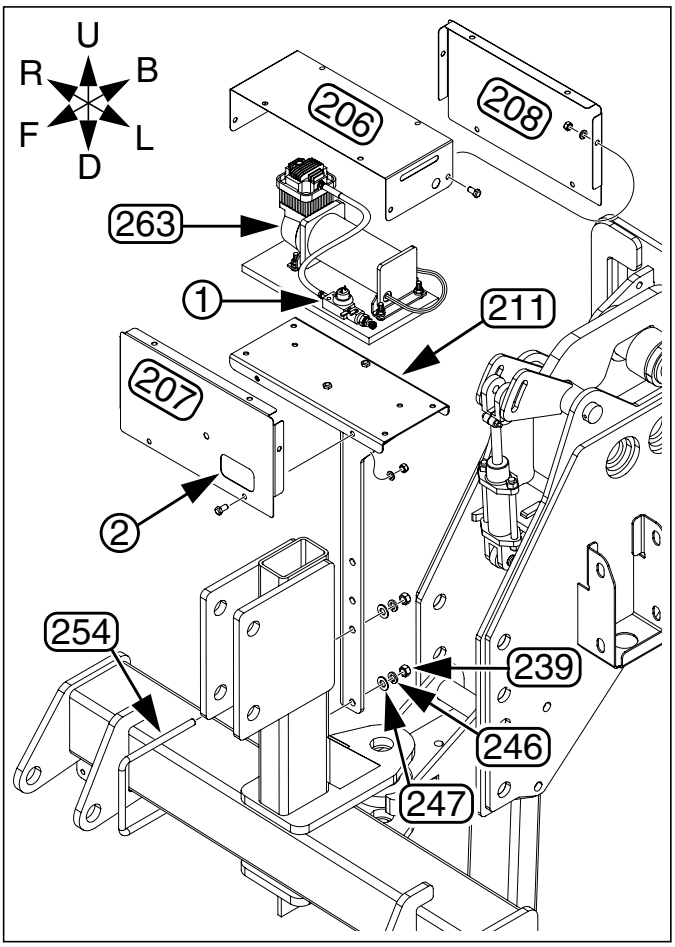


Figure 16 34076
Pull-Type 3-Point Mount

110. Select one:

    (206) 404-225D 12 COMPRESSOR COVER TOP

    Completely secure top to side covers with provided fasteners.

111. Continue at "**Install Valve Blocks**" on page 19.

3PYP and 3PYPA Compressor Installation

Note: By convention, the Swath Command™ compressor is installed on the right hand side of the hitch. If a Row-Pro™ compressor is already installed there, the Swath Command™ compressor may be installed on the left hand side.

Refer to Figure 17

112. Select two each new:

(253) 806-052C U-BOLT 5/8-11 X 7 1/32 X 8 1/2

and two:

(210) 404-230D COMPRESSOR MOUNT BRACKET

(or the complete mount assembly, if pre-assembled)

and four sets:

(248) 804-022C WASHER LOCK SPRING 5/8 PLT

(240) 803-021C NUT HEX 5/8-11 PLT

Find a location on the opener tool bar, right of the hitch, where the mount assembly clears other machine parts in front, and the brackets (210) seat fully against the bottom of the tool bar.

Secure the mount weldment (211) with U-bolts (253), lock washers (246) and nuts (239).

113. If the side covers ((207) and (208)) and top (206) are pre-installed on the mount assembly, and the compressor is not pre-installed, remove the covers, saving the fasteners.

Install Compressor (3PYP)

114. Select one:

(263) 823-330C TRU-COUNT COMPRESSOR ASSEMBLY

Orient the compressor assembly so that the valve ① is to the front. Secure it to the platform of the mount weldment (211) using the fasteners provided.

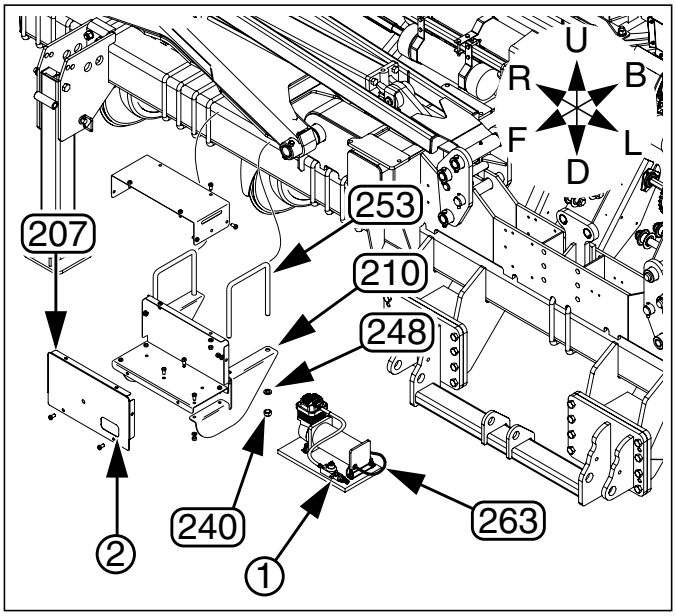


Figure 17 34077
3PYP Compressor Mount

Install Compressor Covers (3PYP)

115. Select one:

(207) 404-226D TC COMPRESSOR COVER SIDE R

Orient the side cover (207) with the access port ② at the valve ①. Loosely secure cover to mount with provided fasteners.

116. Select one:

(208) 404-227D TC COMPRESSOR COVER SIDE L

Loosely secure cover to mount with provided fasteners.

117. Select one:

(206) 404-225D 12 COMPRESSOR COVER TOP

Completely secure top to side covers with provided fasteners.

Install Valve Blocks

Refer to Figure 18

The air clutches now installed are controlled by solenoid valves (272) provided in blocks of 4 valves, each valve controlling a number of rows. A Swath Command™ kit includes 1, 2 or 3 valve blocks.

The valves are controlled by a WSMB-TCOM[a] (218). Each TCOM controls up to eight valves. A Swath Command™ kit includes 1 or 2 WSMBs.

Start at the left side of the planter. Install the valve block and/or TCOM for each section. A section may have both components or only a valve block.

118. Select all included WSMB-TCOM bundles:
(143) 402-305K DJ 8 CHANNEL TRU-COUNT MOD ASM
If the kit has more than one, arrange them in serial number order for installation.

Note: The 402-305K bundle (143) includes:
(218) 467982000S1 PLNTR CNTRL OUTPUT MODULE(POM)
(219) 467983505 DJIA OUTPUT HARN 8-CH TRU-COUN
(231) 802-224C HHCS 1/4-20X1 1/4 GR5
(242) 804-006C WASHER LOCK SPRING 1/4 PLT
(237) 803-006C NUT HEX 1/4-20 PLT
Set each harness (219) aside for later installation.

Note: Connecting WSMBs (218) to the CANbus in serial number order (page 24) causes them to be correctly ordered by rows when the seed monitor detects the configuration change.

119. Consult the clutch layout drawing for the kit (page 48 through page 132). Note locations of any:
(272) 829-140C TRU-COUNT 75713-00 VALVE ASM
(218) 467982000S1 PLNTR CNTRL OUTPUT MODULE(POM)
If none, move to the next section.

120. Select one each new:
(195) 402-533D TRU-COUNT VALVE MODULE BRACKET
(255) 806-073C U-BOLT 3/8-16 X 7 1/32 X 7 7/8
and two new:
(241) 803-209C NUT FLANGE LOCK 3/8-16 PLT

At the location shown in the layout, secure the bracket (195) to the opener tool bar using the U-bolt (255) and flange lock nuts (241).

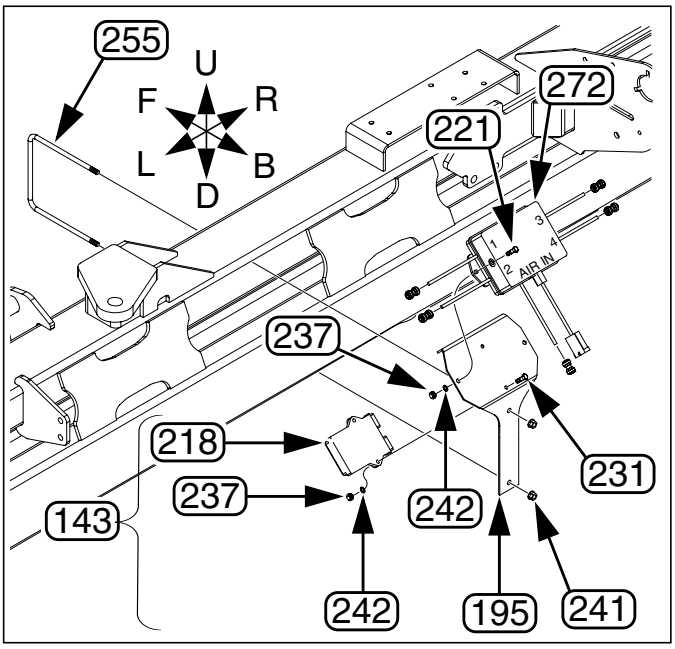


Figure 18
Valve Block Mount
34084

121. If the layout drawing shows a WSMB (218) at the current location, select the:
(218) 467982000S1 PLNTR CNTRL OUTPUT MODULE(POM)
with the lowest serial number, and two sets:
(231) 802-224C HHCS 1/4-20X1 1/4 GR5
(242) 804-006C WASHER LOCK SPRING 1/4 PLT
(237) 803-006C NUT HEX 1/4-20 PLT

Insert the bolts (231) from the top rear of the bracket (195). Add the WSMB (218), with connectors toward implement center, and secure with lock washers (242) and nuts (237). Tighten nuts only to Grade 2 torque specification.

122. Select one new:
(272) 829-140C TRU-COUNT 75713-00 VALVE ASM
and two sets new:
(221) 802-004C HHCS 1/4-20X3/4 GR5
(242) 804-006C WASHER LOCK SPRING 1/4 PLT
(237) 803-006C NUT HEX 1/4-20 PLT

Orient the valve assembly (272) with the port lettering upright. Secure the valve block to the bracket (195) with the bolts (221), lock washers (242) and nuts (237). Tighten nuts only to Grade 2 torque specification.

123. Repeat step 119 through step 122 for the next bracket, if any.

a. Working Set MemBer - Planter Output Module

Install Air Tank(s)

Refer to Figure 19

The solenoid valves now installed are supplied by one or two air tanks (262).

Start at the left side of the planter. A section may have one tank or no tank.

124. Consult the clutch layout drawing for the kit (page 48 through page 132). Note locations of any:
(262) 823-329C TRU-COUNT AIR TANK ASM
If none, move to the next section.

125. Select one each new:
(197) 402-535D TRU-COUNT AIR TANK MOUNT PLATE
and two sets new:
(224) 802-017C HHCS 3/8-16X1 GR5
(245) 804-013C WASHER LOCK SPRING 3/8 PLT
(238) 803-014C NUT HEX 3/8-16 PLT

At the location shown in the layout, secure the plate (197) to the left side of the opener using the bolts (224), lock washers (245) and nuts (238).

126. Select one new:
(262) 823-329C TRU-COUNT AIR TANK ASM
and two sets new:
(223) 802-014C HHCS 3/8-16X3/4 GR5
(245) 804-013C WASHER LOCK SPRING 3/8 PLT
(238) 803-014C NUT HEX 3/8-16 PLT

127. Repeat step 124 through step 126 for the next tank, if any.

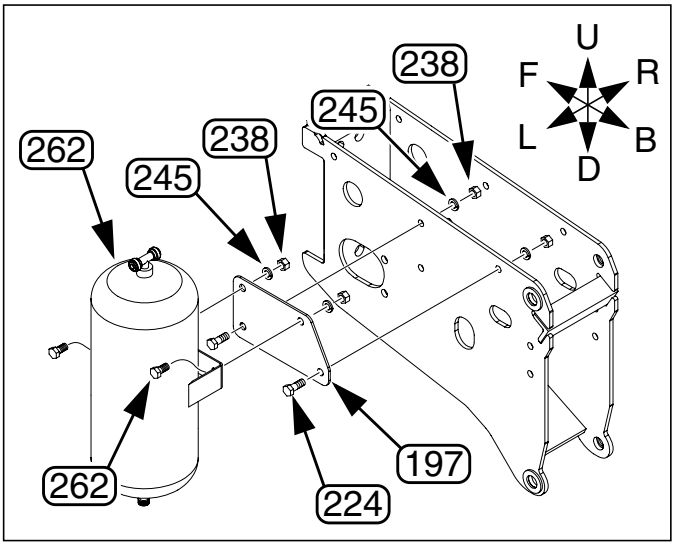


Figure 19
Air Tank Mount

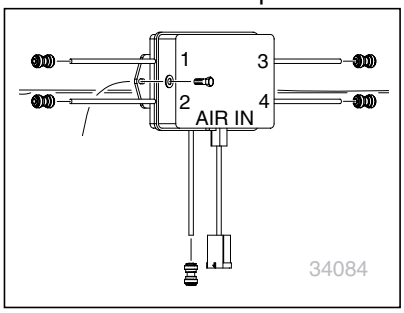
34085

Install Air Lines

Install Row Air Lines

128. Find the Clutch Layout for your planter model (these are on page 48 through page 132).

Start with the left wing, first clutch and valve Port 1. Valve ports are numbered 1-4 on the top cover.



Refer to Figure 20

129. Locate the next available port ① of the valve block (272).

130. Identify which air clutches are served by that port, and which clutch is the furthest from the port.

Refer to Figure 21

131. Locate the clutch cylinder (278) to be connected.

132. Select a spool of:
(275) 990-109R TUBE NYLON 1/4OD X 062WL
and one:
(273) 830-383C CP 1/4 PUSH LOK POLY

133. Route the tubing from the clutch (278) to the valve port, passing near each served row clutch. Remain clear of moving parts. allow enough slack to dress the tubing against the rear top corner of the tool bar, and avoid kinking at turns.

    Pull the white polymer or metal collars (283) away from the fitting body. Insert the valve tubing and clutch tubing (273). Push together. Re-seat collars.

134. At the clutch cylinder, cut the tubing to length. Pull up collar. Insert tubing. Push together.

135. If the valve port serves more than one clutch, select one tee for each additional served clutch:
(274) 830-405C TE POLY 1/4 PUSH LOCK
Cut the tubing just installed, directly above a served clutch. Insert a tee (274). Cut a length of fresh tubing(275) to run from the tee to the clutch. Make the connection.

136. Repeat step 129 through step 135 for all used valve ports and row clutches.

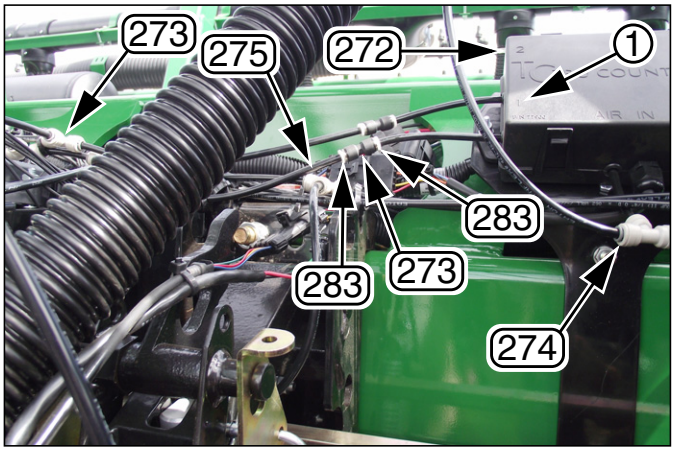


Figure 20
Valve Block Tubing
34242

NOTICE

Tubing Damage Risk:
At section divisions, route the tubing with the existing air hose and harness bundle, as these pass through a pivot point, eliminating pull-out risk and minimizing tubing flex. Routing tubing directly across a wing gap will result in tubing damage during operation.

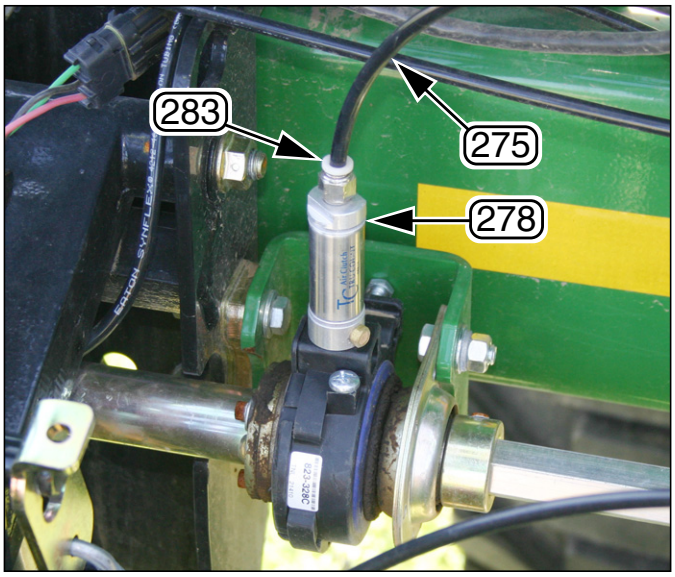


Figure 21
Clutch Cylinder Tubing
34242

Install Section Air Lines

All of the tanks and valve inlets are interconnected, forming a single shared reservoir system.

On a smaller planter, this topic is a simple connection of a single tank (262) and valve (272). Use a tee (274) at the inside end of the tubing, for the supply connection.

Refer to Figure 22

137. Locate the left ① and right ③ extents of the tank (262) and valve (272) set now installed.
138. Route tubing (275) between these ends. Stay at the upper rear edge of the tool bar, except at inboard wing ends. At wing pivots, follow the existing seed hose and harness bundles.
139. Make end connections using push-lock fittings or couplers (273).
140. Select as many tees (274) as needed to make connections between ends. Select one additional tee for use as supply line, inserted and connected in the next topic.

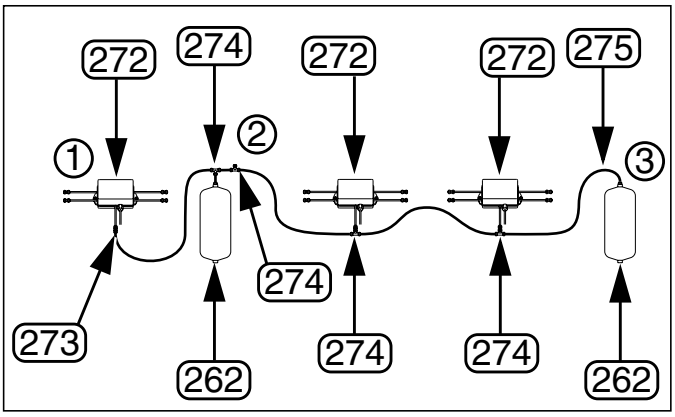


Figure 22 34245
Generalized Section Connections

Install Supply Air Lines

The supply line from the hitch connects to the section line:

- On a folding planter, the line is routed inside the left pull bar, and connects to the section line on the left wing.
- On a 3PYP/A planter, the line is routed from the hitch and connects to the section line at machine center.

141. Use the final tee to splice into the section line at the point where the supply line is expected to meet it.
142. Route the remaining tubing from the hitch to the section connection point.
143. If the compressor is tractor-mounted, cut the supply line near the hitch and insert a coupler.
144. Connect the end of the supply line to the pump outlet.
145. Install and secure the compressor cover.

Fish Line Bind

If the wire or tape cannot be fished through the left pull bar of a folding planter, it is necessary to re-pull the entire hose/harness bundle, with the tubing added.

a. Connect each hydraulic hose at the hitch to a hydraulic source that has a Float capability. Set the circuit to Float to relieve pressure in the hose.
b. Identify each hose inside the left pull bar with tape and marker. Determine which hose end is easier to disconnect. Mark the other side of each connection.
c. Carefully crack each JIC connection to relieve any unexpected residual pressure. Disconnect each connection and drain it into a bucket.
d. Mark and disconnect any harness routed through the pull bar.
e. Connect a fish line to the disconnected end of a hose or harness.
f. Pull the hose and harness bundle out.
g. Add the supply tubing to the bundle.
h. Attach the bundle to the fish line. Pull the bundle through the pull bar.
i. Re-establish all connections.
j. Perform a bleed before performing any hydraulic lifts or folds.

Install Harness

Determine Connections

146. Find the Clutch Layout for your planter model (these are on page 48 through page 132).

     Determine which valve is attached to which WSMB-TCOM (218), and which outputs of the WSMB.

Refer to Figure 23 (which is a generalized layout, and not specific to any particular kit)

Connect WSMB Harnesses

Insert Left Wing WSMB Harness

147. On the left wing, locate a CANbus connection ① near the first WSMB-TCOM (218). This connection may be from the hitch lead, at the WSMT, or at an existing WSMB.

148. Select one new:
     (219) 467983505 DJIA OUTPUT HARN 8-CH TRU-COUN

     Interconnect the four CANbus connectors into the existing harness.

     Connect the DEUTSCH connectors to the WSMB-TCOM (218).

Insert Right Wing WSMB Harness

If your kit only had one WSMB, continue at "**Connect Valve Blocks**" on page 25.

149. On the right wing, locate a CANbus connection ① near the second WSMB-TCOM (218). This connection may be at an existing WSMB, but is more likely to be at the CANbus terminator (18).

150. Select one new:
     (219) 467983505 DJIA OUTPUT HARN 8-CH TRU-COUN

     Interconnect the four CANbus connectors into the existing harness. In the case of a terminator connection, one harness connector is left unconnected, and the other on that side takes the terminator.

     Connect the DEUTSCH connectors to the WSMB-TCOM (218).

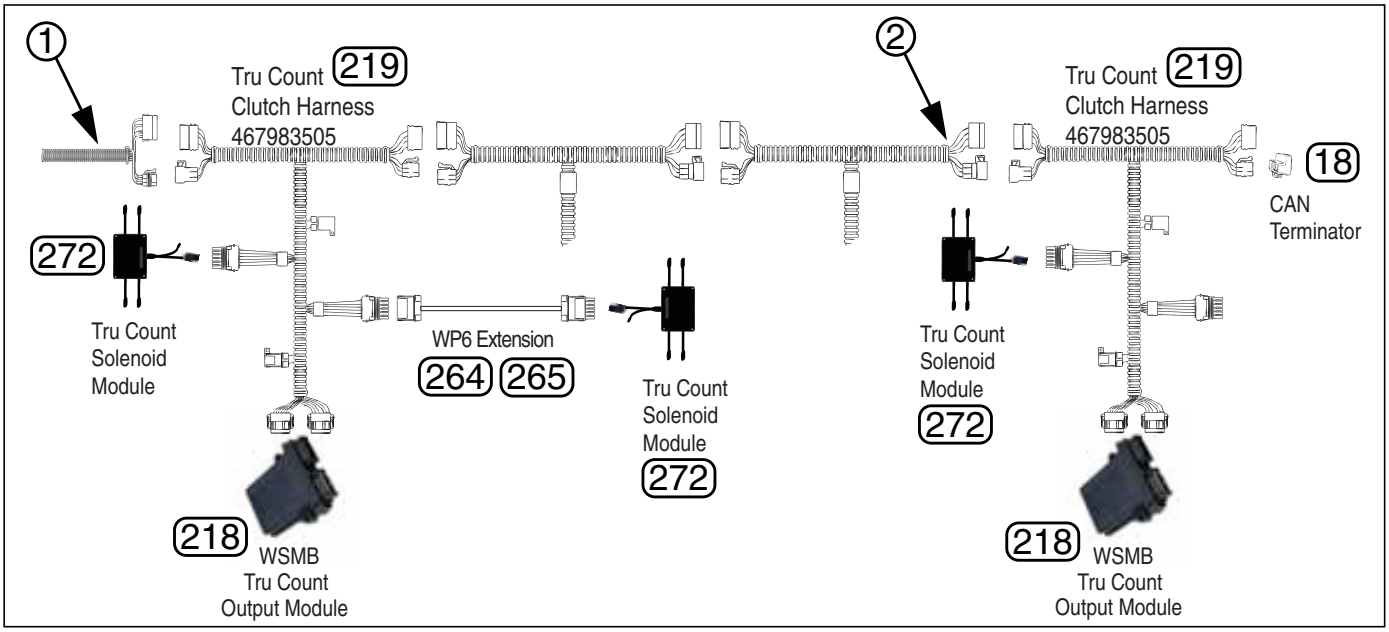


Figure 23
Generalized Implement Harness Diagram

34246

Connect Valve Blocks

Connect 1st Valve Block

151. Connect the 6-pin weatherpak connector marked for outputs 1-4 to the first solenoid valve (272).

Connect 2nd Valve Block (if any)

152. Move to the next (second) valve. If the valve lead cannot reach the WSMB to which it is assigned, select one of:
(264) 823-336C EXTENSION HARNESS 25'6 PIN WP
(265) 823-337C EXTENSION HARNESS 40'6 PIN WP
Per the layout, connect the second valve to WSMB#1 outputs 5-8, or to WSMB#2 outputs 1-4. Use the extension as needed to make the connection.

NOTICE

Cable Damage Risk:
If an extension is used, and crosses a wing pivot, route it with the existing seed hoses, harnesses and air tubing.

Connect 3rd Valve Block (if any)

153. Connect the valve lead to the Output 1-4 lead of the second WSMB.

Secure Tubing and Harnesses

Use cable ties to secure all tubing and harnesses.

Do not install ties in the bend radius at wing pivots.

System Set Up

Implement Considerations

For a standard configuration, no components typically need to be installed on the planter. Continue at "**Install Satellite Receiver**" on page 28.

If after-market clutch control systems are to be used, consult the supplier documentation for installation. Unless CANbus compatible electronics are used, such an installation will involve a harness from the tractor cab to the planter main frame and tool bars.

Install Tractor Components

For a standard configuration, using the supplied compressor pre-installed on the planter, continue at "**Install Cab Components**" on page 28.

With an existing air source, continue at "**Install Satellite Receiver**" on page 28.

Relocate Standard Compressor

Refer to Figure 24

Plan the compressor ① re-installation, allowing for a source of clean air and complying with other compressor mounting requirements. These instructions presume a re-installation on the tractor. Factors include:

- Chose a flat surface (base plate down). This may require purchase or fabrication of a bracket.
- Keep the power leads to the battery as short as possible. Use only the cabling provided and no extensions. The voltage measured at the motor must be 12.0 Vdc or higher, operating under load.
- Chose a compressor mounting location that is away from heat sources, particularly exhausts and heat exchanger outflows.
- Avoid locations near flammable liquids. The pump gets hot. Splashed fuel could be a fire hazard.
- Chose a dry location if possible (this is a MUST if the inlet filter is pump-mounted). The compressor is water-resistant but not water-proof. Avoid locations in the path of water thrown by tires.
- Allow a short inlet air hose run (or no hose at all) between the compressor inlet and the inlet air filter (filter MUST be placed at a clean and dry location, typically the tractor cab). You may need to provide hose for longer runs.

See the **Viair User's Manual** for detailed compressor installation instructions.

Note: Clutch control components not supplied or recommended by Great Plains may not be monitored by the DICKEY-john® IntelliAg® system. Row shut-off by a non-standard swath controller can cause nuisance row-failure alarms.

Note: If you plan to use an existing air source, it must be able to provide 1.2 cfm (34 liters/min) at 130 psi (9 bar). The air must also be filtered at a maximum 10 micron (10 µm) particle size to prevent fouling of the cylinder breather plugs. An existing source also needs to be adapted to the pump outlet or tank inlet (hose size or $^{3}/_{8}$MNPT).

Figure 24 32221
823-330C Compressor Kit

Inlet Air Hose Specification

Nylon tubing. $^{1}/_{4}$ inch (6.4 mm) OD. $^{1}/_{4}$ inch ID. 0.62 inch wall thickness. 2000 psi.

Mount Pressure Gauge

For a standard configuration, using the supplied compressor pre-installed on the planter, continue at "**Install Cab Components**" on page 28.

NOTICE

Leaky Connect Risk:
When cutting hose, use a sharp knife or scissor-type tubing cutter. Make the cuts smooth and perpendicular to the length of the hose. Avoid angled and ragged cuts.

Refer to Figure 25
Find a location for the pressure gauge ② that is visible from the tractor cab, but not too far from the routing path of the air hose from the pump to the solenoid valves on the planter.

Connect Compressor Air Lines

For a standard configuration, using the supplied compressor pre-installed on the planter, continue at "**Install Cab Components**" on page 28.

Refer to Figure 26 (which depicts the gauge on the tractor side of the hitch connection)

1. Cut hoses to meet at the hitch. Terminate with mating connectors ③.
2. Insert a tee ④ in the line near the gauge. Route hose from tee to gauge.
3. Unless the compressor is mounted inside the tractor cab, route a hose ⑤ from the inlet into the cab.

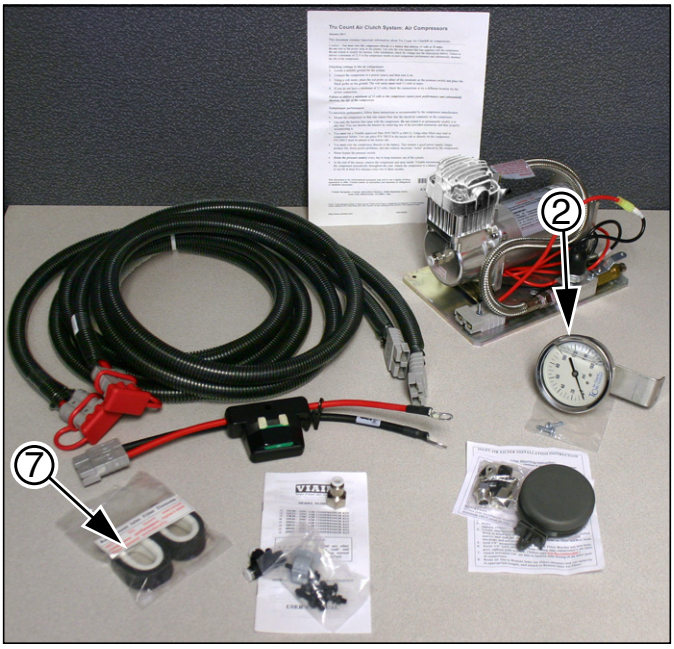


Figure 25
Compressor Components
32221

NOTICE

Breather Fouling Risk:
Avoid the use of sealant tape on NPT connections. Use liquid sealant, and avoid application at thread starts. Tape fragments and uncontained sealant can foul breather plugs, resulting in seed meters failing to operate.

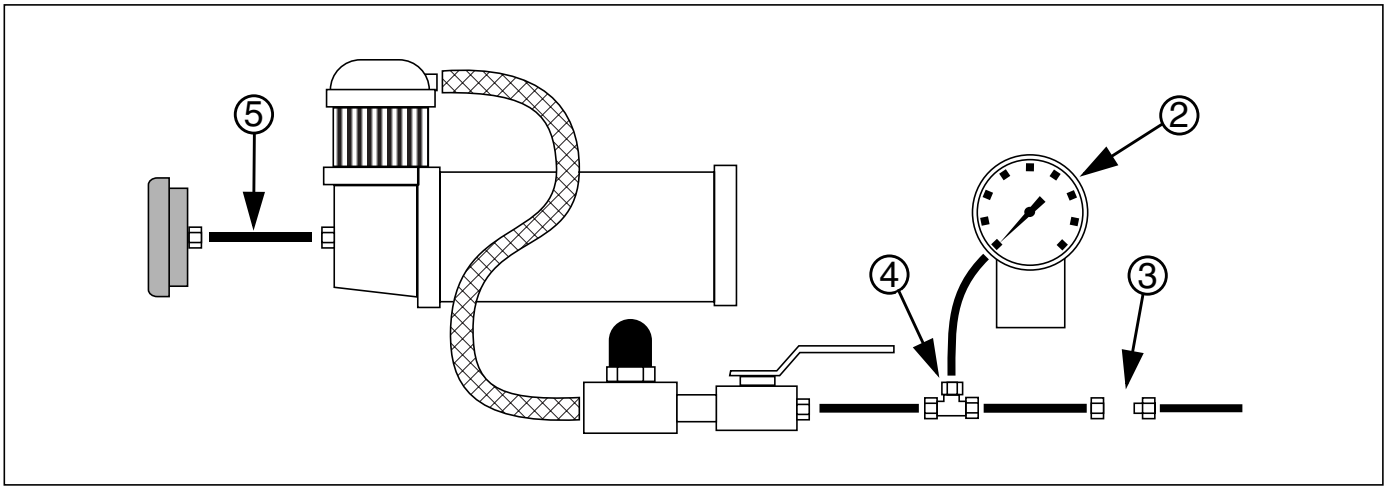


Figure 26
Compressor Hose Connections
32224

Install Satellite Receiver

If the augmented coordinate receiver is already installed, continue at "**Install Cab Components**". Otherwise, consult the instructions supplied with the primary and augmentation receiver(s).

The primary, and any augmentation receiver may need to be configured or programmed via an office computer prior to mechanical installation.

Receivers are typically mounted on the rear center of the tractor cab roof. Route cables into the tractor cab.

Note: Mounting a receiver on the planter implement is not presently recommended[a] by Great Plains. Planter mounting is strongly discouraged if the same receiver is also used for tractor auto-steer.

Figure 27 32220
AgGPS® 262 on 900 Radio

Install Cab Components

Install Air Inlet Filter

Refer to Figure 28

4. Verify that the filter housing ⑥ has a filter element installed. See item ⑦ in Figure 25 on page 27
5. Unless the filter is mounted directly at the compressor inlet, use the provided fittings to connect the filter to the hose run into the cab at step 3 on page 27.

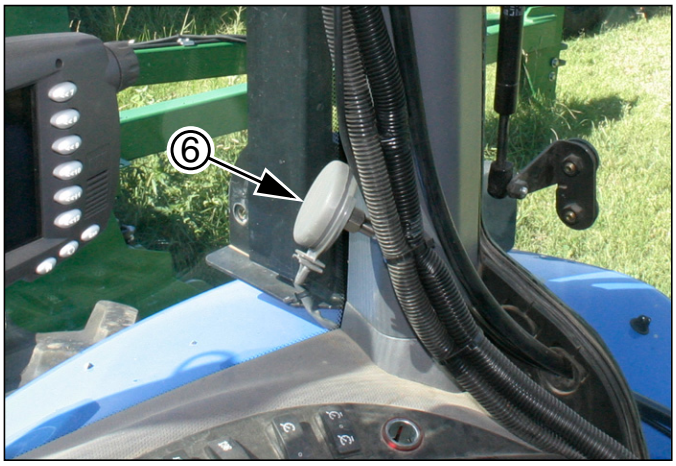


Figure 28 32217
Inlet Filter in Tractor Cab

a. Implement GPS installation requires a location *ahead* of the seed tubes (not directly above or aft of seed drop point), and above all implement components, including folded marker discs. This would require a rigid custom platform structure.

Install Control Terminal

Planter Option 57 (AI120) Console

Refer to Figure 29
This console is a complete super-set of any existing DICKEY-john® AI100 (formerly A1) console that might be installed. It also performs the combined functions of and A1 and an A5 console.

Consult the DICKEY-john® Auto Section Control System Operator's Manual (11001-1561A) for installation of the auto section control terminal in the tractor cab. The kit includes a dual-gimbal RAM mount and fasteners. The base end of the mount must be dealer- or user-affixed to a cab location.

⚠ CAUTION

View Obstruction Hazard:
Mount the AI120 where it does not block your view of the road in transport, or block your view of the planter, but can be easily observed and manipulated in the field.

Continue at topic "**Connect Cab Harnesses**".

Figure 29 32482
DICKEY-john® AI120 Terminal Kit

Field Kit (A5) Console

Refer to Figure 30
Swath Command™ field installation kits are designed to work with an existing DICKEY-john® AI100 (formerly A1) 10 inch color console. The kits include an auxiliary DICKEY-john® A5 section control console.

Consult the DICKEY-john® Auto Section Control System Operator's Manual (11001-1561A) for installation of the auto section control terminal in the tractor cab. The kit includes a dual-gimbal RAM mount and fasteners. The base end of the mount must be dealer- or user-affixed to a cab location.

⚠ CAUTION

View Obstruction Hazard:
Mount the A5 where it does not block your view of the road in transport, or block your view of the planter, but can be easily observed and manipulated in the field.

Figure 30 32219
DICKEY-john® A5 Terminal Kit

Connect Cab Harnesses

Planter Option 57 (AI120) Harnesses

Refer to Figure 31 on page 30
Continue at "**IntelliAg® PDC Setup**" on page 32.

Field Kit (A5) Harnesses

Refer to Figure 32 on page 31
If using an AgGPS® receiver and DICKEY-john® A5 Terminal, connect them with a 467980458 harness.

System Harness Diagram (Option 57)

This diagram shows the factory-installed configuration, plus optional GPS receiver.

The components changed or added for Swath Command™ are outlined with dashes.

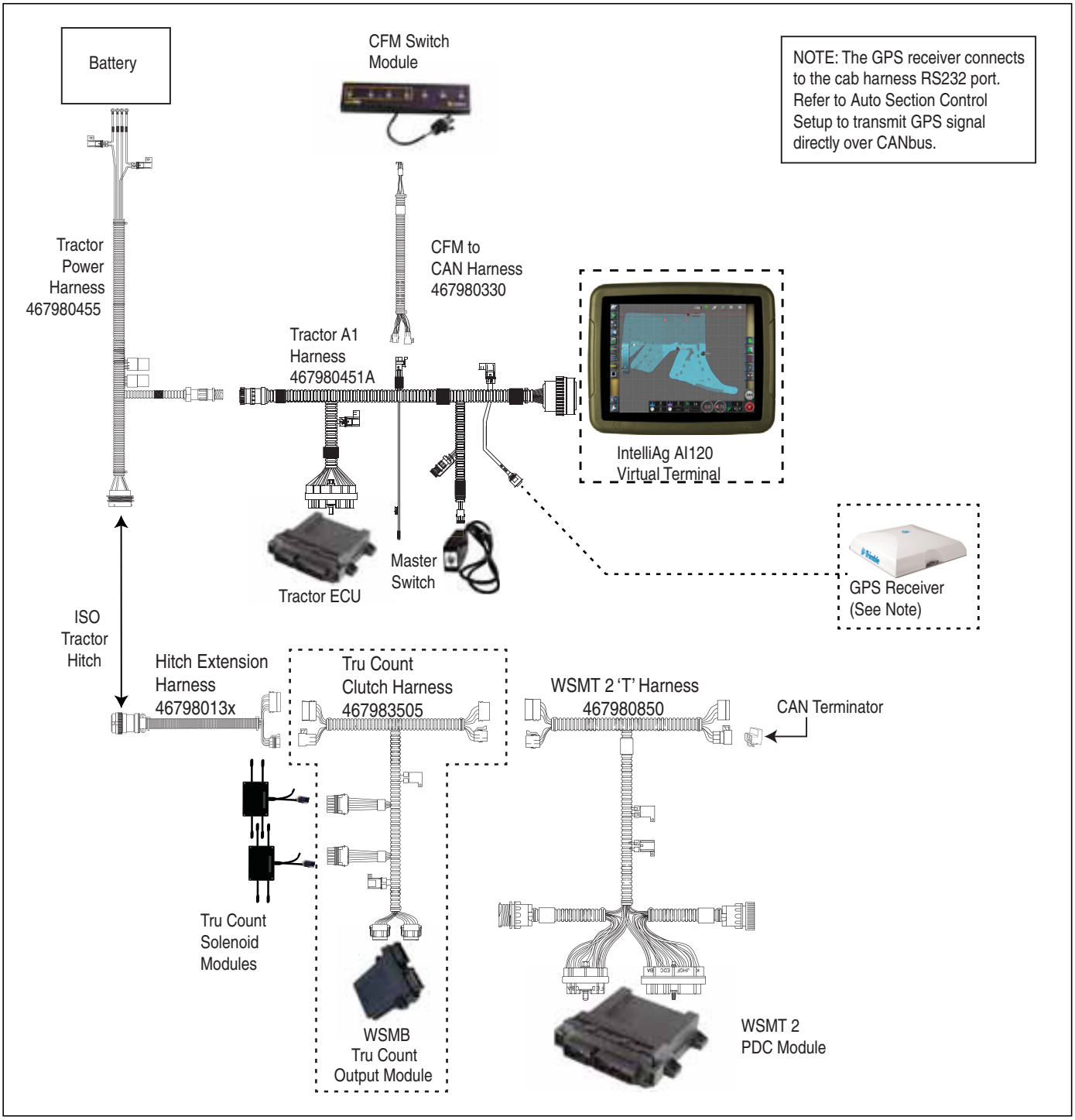
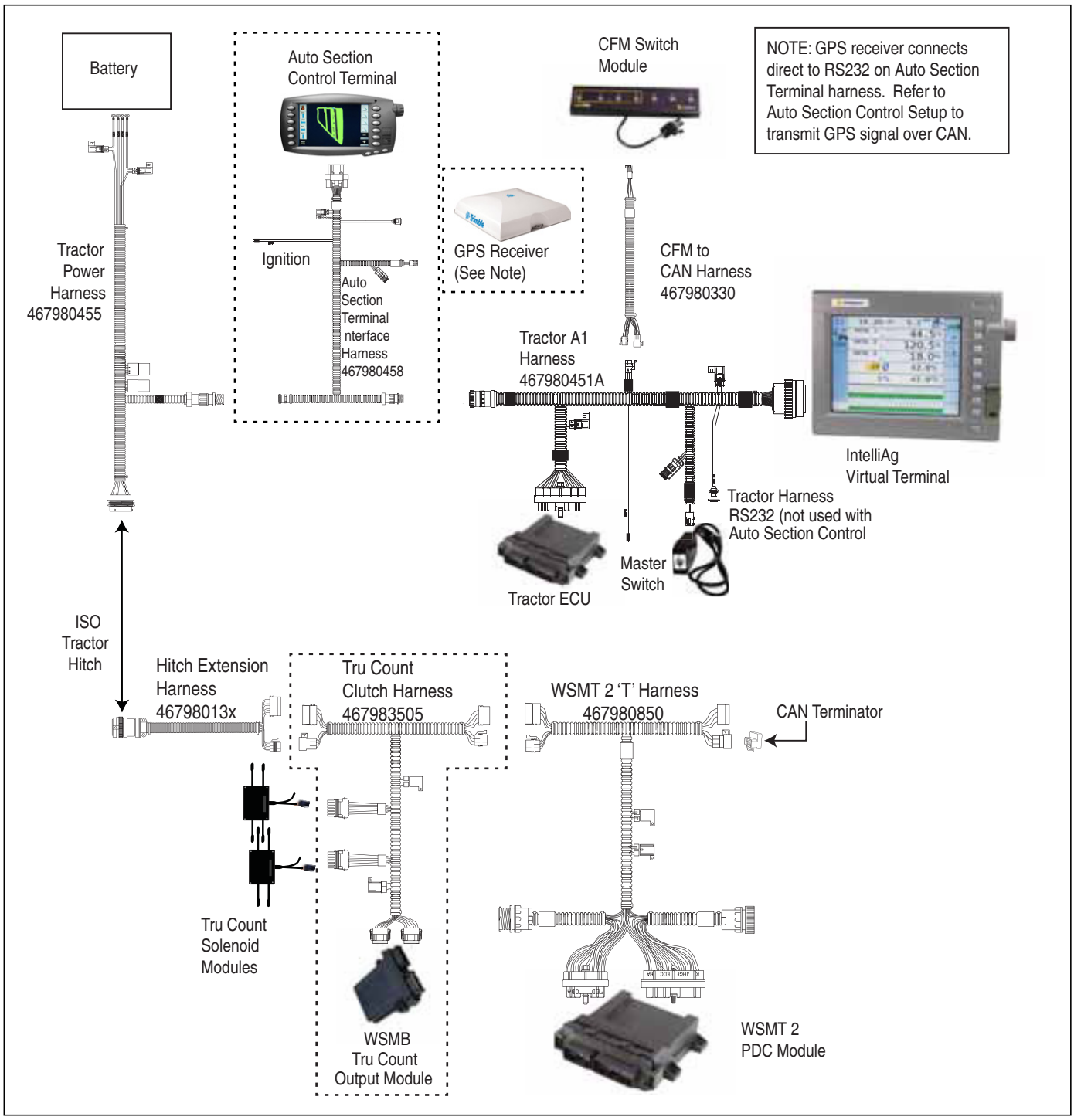


Figure 31
Option 57 / AI120 Harness Diagram

System Harness Diagram (Kit)

This diagram shows a configuration using only components available through Great Plains.

The components changed or added for Swath Command™ are outlined with dashes.



32188

Figure 32
Field Kit / A5 Harness Diagram

IntelliAg® PDC Setup

The system needs know where all seed drop points are located, so that it can accurately turn seeding on and off, as well as record seeded areas.

Detailed steps are provided in the 403-857M Feature Operation manual.

The present manual (402-382M Installation and Reference) provides reference information needed for console setup.

Figure 33 34255
Swath Command™ Consoles

Appendix A - Reference Information

Torque Values Chart

Bolt Size	Bolt Head Identification					
	Grade 2		Grade 5		Grade 8	
in-tpi[a]	N-m[b]	ft-lb[d]	N-m	ft-lb	N-m	ft-lb
1/4-20	7.4	5.6	11	8	16	12
1/4-28	8.5	6	13	10	18	14
5/16-18	15	11	24	17	33	25
5/16-24	17	13	26	19	37	27
3/8-16	27	20	42	31	59	44
3/8-24	31	22	47	35	67	49
7/16-14	43	32	67	49	95	70
7/16-20	49	36	75	55	105	78
1/2-13	66	49	105	76	145	105
1/2-20	75	55	115	85	165	120
9/16-12	95	70	150	110	210	155
9/16-18	105	79	165	120	235	170
5/8-11	130	97	205	150	285	210
5/8-18	150	110	230	170	325	240
3/4-10	235	170	360	265	510	375
3/4-16	260	190	405	295	570	420
7/8-9	225	165	585	430	820	605
7/8-14	250	185	640	475	905	670
1-8	340	250	875	645	1230	910
1-12	370	275	955	705	1350	995
1 1/8-7	480	355	1080	795	1750	1290
1 1/8-12	540	395	1210	890	1960	1440
1 1/4-7	680	500	1520	1120	2460	1820
1 1/4-12	750	555	1680	1240	2730	2010
1 3/8-6	890	655	1990	1470	3230	2380
1 3/8-12	1010	745	2270	1670	3680	2710
1 1/2-6	1180	870	2640	1950	4290	3160
1 1/2-12	1330	980	2970	2190	4820	3560

Bolt Size	Bolt Head Identification					
	5.8 Class 5.8		8.8 Class 8.8		10.9 Class 10.9	
mm x pitch[c]	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

a. in-tpi = nominal thread diameter in inches-threads per inch

b. N· m = newton-meters

c. mm x pitch = nominal thread diameter in mm x thread pitch

d. ft-lb = foot pounds

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above. 25199

Clutch Exploded Views

823-327C[a] Right Hand (RH) Air Clutch

c/o	PART NO	DESCRIPTION
260	823-327C	TRUE COUNT RH AIR CLUTCH
270	823-411C	TRUE COUNT CLUTCH HUB RH
276	TC-68553	HOUSING, CLUTCH
277	TC-68824	CYLINDER
278	TC-68824-01	AIR CYLINDER ASSY
279	TC-68831	MUFFLER/FILTER
280	TC-68855	CLUTCH COVER
281	TC-68858	SPRING - RH
283	TC-69002	FITTING, 1/8"MNPT
284	TC-69027	SCREW, PAN 1/4-20 x .375
285	TC-72250	STOP COLLAR
286	TC-72254	RETAINING RING
287	TC-72255	SCREW, 6-32 x .375
288	TC-73183	PIN HUB REGULAR

See manual 403-857M for maintenance and component orientation details.

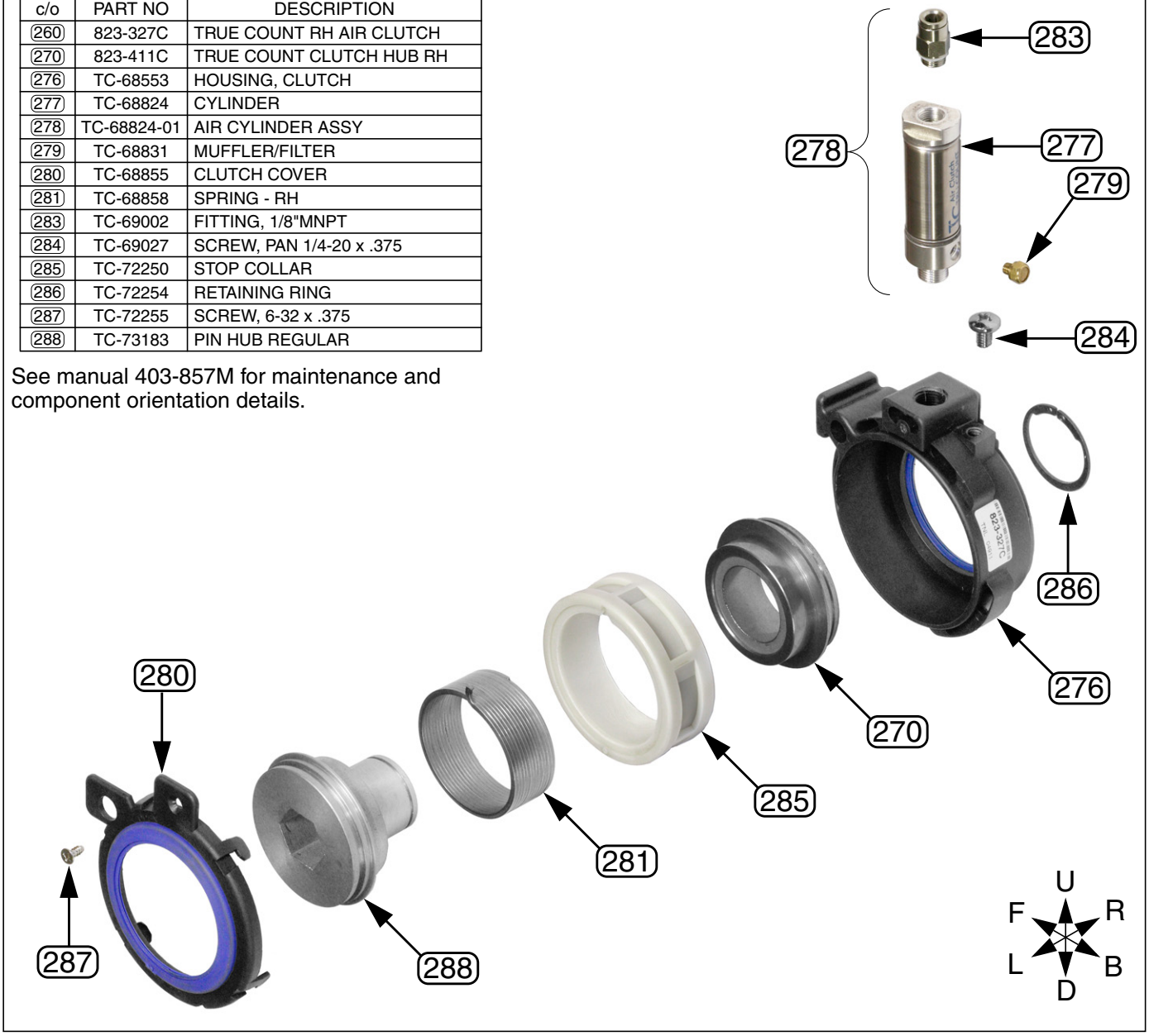


Figure 34
823-327C RH Clutch Exploded View

a. Parts prefixed “TC-” are original Tru-Count or Trimble part numbers, and must be ordered from Trimble. Replacement clutch housings may not have a decal with the Great Plains part number.

823-328C[a] Left hand (LH) Air Clutch

c/o	PART NO	DESCRIPTION
261	823-328C	TRU-COUNT LH AIR CLUTCH
271	823-412C	TRUE COUNT CLUTCH HUB RH
276	TC-68553	HOUSING, CLUTCH
277	TC-68824	CYLINDER
278	TC-68824-01	AIR CYLINDER ASSY
279	TC-68831	MUFFLER/FILTER
280	TC-68855	CLUTCH COVER
282	TC-68879	SPRING - LH
283	TC-69002	FITTING, 1/8"MNPT
284	TC-69027	SCREW, PAN 1/4-20 x .375
285	TC-72250	STOP COLLAR
286	TC-72254	RETAINING RING
287	TC-72255	SCREW, 6-32 x .375
288	TC-73183	PIN HUB REGULAR

See manual 403-857M for maintenance and component orientation details.

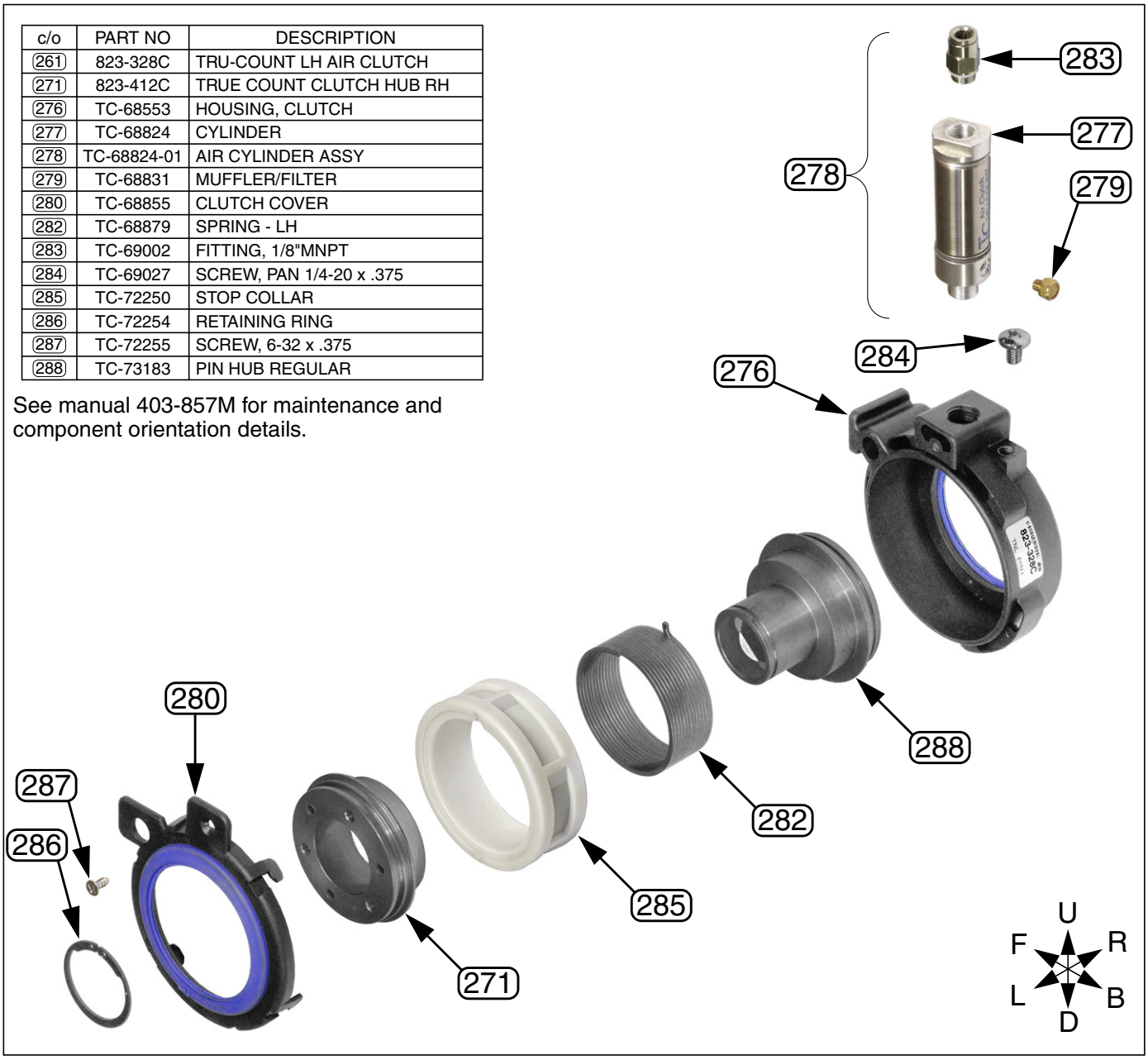


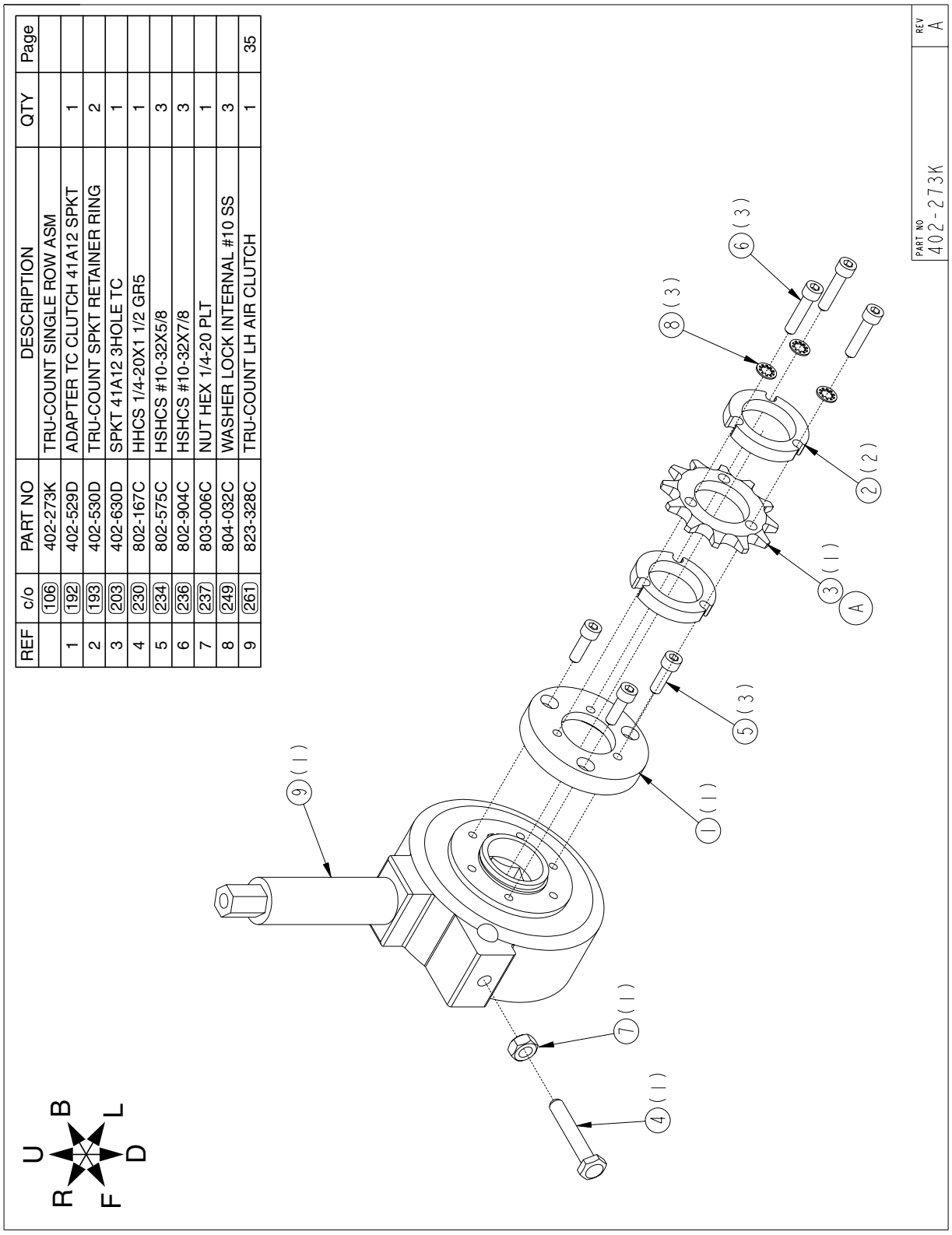
Figure 35
823-328C LH Clutch Exploded View

32275

a. Parts prefixed “TC-” are original Tru-Count or Trimble part numbers, and must be ordered from Trimble. Replacement clutch housings may not have a decal with the Great Plains part number.

402-273K Single-Row Left Hand

REF	c/o	PART NO	DESCRIPTION	QTY	Page
	(106)	402-273K	TRU-COUNT SINGLE ROW ASM		
1	(192)	402-529D	ADAPTER TC CLUTCH 41A12 SPKT	1	
2	(193)	402-530D	TRU-COUNT SPKT RETAINER RING	2	
3	(203)	402-630D	SPKT 41A12 3HOLE TC	1	
4	(230)	802-167C	HHCS 1/4-20X1 1/2 GR5	1	
5	(234)	802-575C	HSHCS #10-32X5/8	3	
6	(236)	802-904C	HSHCS #10-32X7/8	3	
7	(237)	803-006C	NUT HEX 1/4-20 PLT	1	
8	(249)	804-032C	WASHER LOCK INTERNAL #10 SS	3	
9	(261)	823-328C	TRU-COUNT LH AIR CLUTCH	1	35



402-273K-ASY: 402-273K Installation Details

Steps:

Install during shaft ① re-insertion. Only the shaft secures the clutch to the opener mount ②.

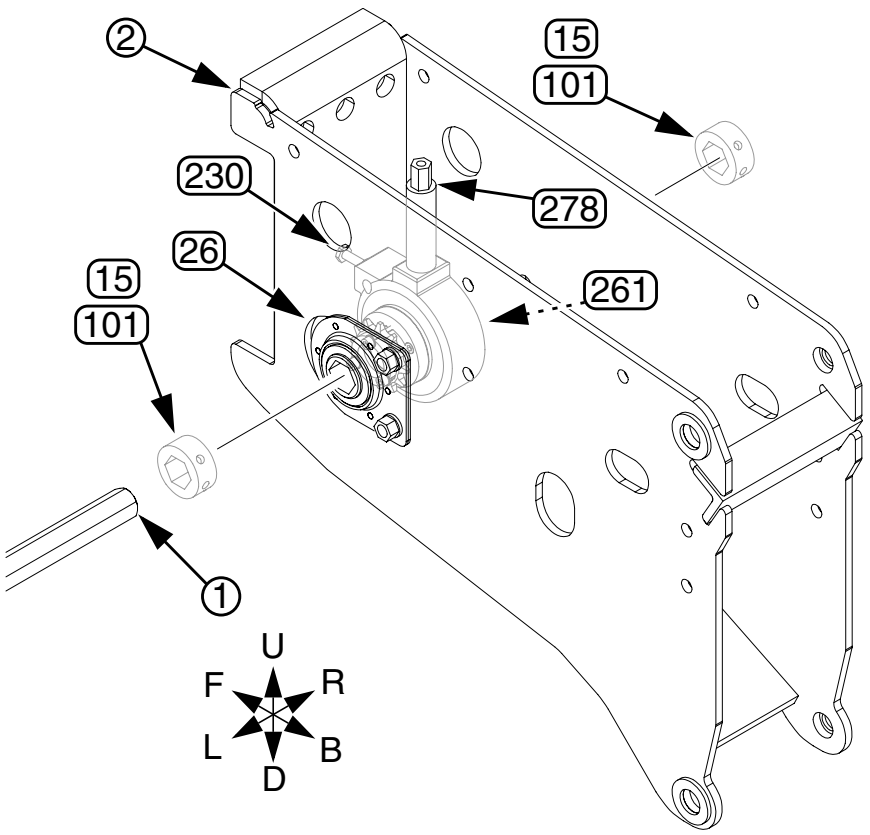
An existing bearing (26) is presumed to be still installed at the left wall of the opener mount. If it was removed, re-install it.

1. Add a lock collar ((15) or (101)) to shaft before installing the clutch only if specified on the clutch layout drawing for your kit and kit. Not all rows have collars.

   Lock collars, if used, may be new (101) or saved (15). Do not secure set screws until all clutches are installed and shaft ① is in its final position.
2. Loop meter drive chain (not shown) over shaft before adding clutch.
3. Install clutch (261) with anti-rotation bolt (230) facing forward, and air cylinder (278) up. Loop chain over sprocket while installing.

   Do not adjust chain slack until all clutches are installed and shaft ① is in its final position.
4. Add a RH lock collar ((15) or (101)) if specified.

c/o	PART NO	DESCRIPTION	Page
(15)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(26)	822-239C	PEER 7/8 HEX BRG AND MNT (TYP ROW)	
(101)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(106)	402-273K	TRU-COUNT SINGLE ROW ASM	36
(230)	802-167C	HHCS 1/4-20X1 1/2 GR5	
(261)	823-328C	TRU-COUNT LH AIR CLUTCH	35
(278)	TC-68824-01	AIR CYLINDER ASSY	

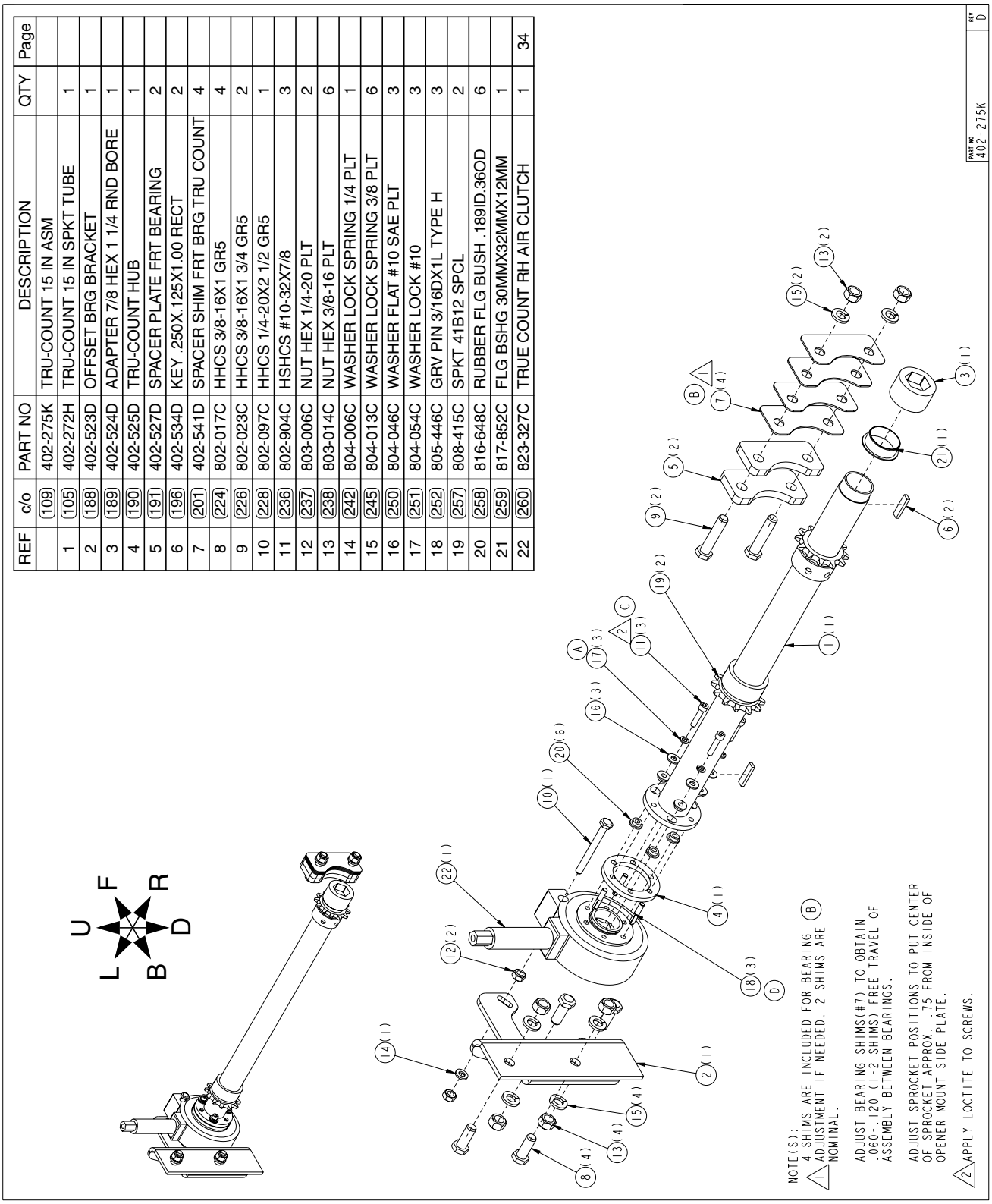


32205

Figure 36
402-273K-ASY Single-Row LH Clutch Installation Details

402-275K Two-Row RH 15-Inch

REF	c/o	PART NO	DESCRIPTION	QTY	Page
	109	402-275K	TRU-COUNT 15 IN ASM		
1	105	402-272H	TRU-COUNT 15 IN SPKT TUBE	1	
2	188	402-523D	OFFSET BRG BRACKET	1	
3	189	402-524D	ADAPTER 7/8 HEX 1 1/4 RND BORE	1	
4	190	402-525D	TRU-COUNT HUB	1	
5	191	402-527D	SPACER PLATE FRT BEARING	2	
6	196	402-534D	KEY .250X.125X1.00 RECT	2	
7	201	402-541D	SPACER SHIM FRT BRG TRU COUNT	4	
8	224	802-017C	HHCS 3/8-16X1 GR5	4	
9	226	802-023C	HHCS 3/8-16X1 3/4 GR5	2	
10	228	802-097C	HHCS 1/4-20X2 1/2 GR5	1	
11	236	802-904C	HSHCS #10-32X7/8	3	
12	237	803-006C	NUT HEX 1/4-20 PLT	2	
13	238	803-014C	NUT HEX 3/8-16 PLT	6	
14	242	804-006C	WASHER LOCK SPRING 1/4 PLT	1	
15	245	804-013C	WASHER LOCK SPRING 3/8 PLT	6	
16	250	804-046C	WASHER FLAT #10 SAE PLT	3	
17	251	804-054C	WASHER LOCK #10	3	
18	252	805-446C	GRV PIN 3/16DX1L TYPE H	3	
19	257	808-415C	SPKT 41B12 SPCL	2	
20	258	816-648C	RUBBER FLG BUSH .189ID.36OD	6	
21	259	817-852C	FLG BSHG 30MMX32MMX12MM	1	
22	260	823-327C	TRUE COUNT RH AIR CLUTCH	1	34



402-275K-ASY: 402-275K Installation Details

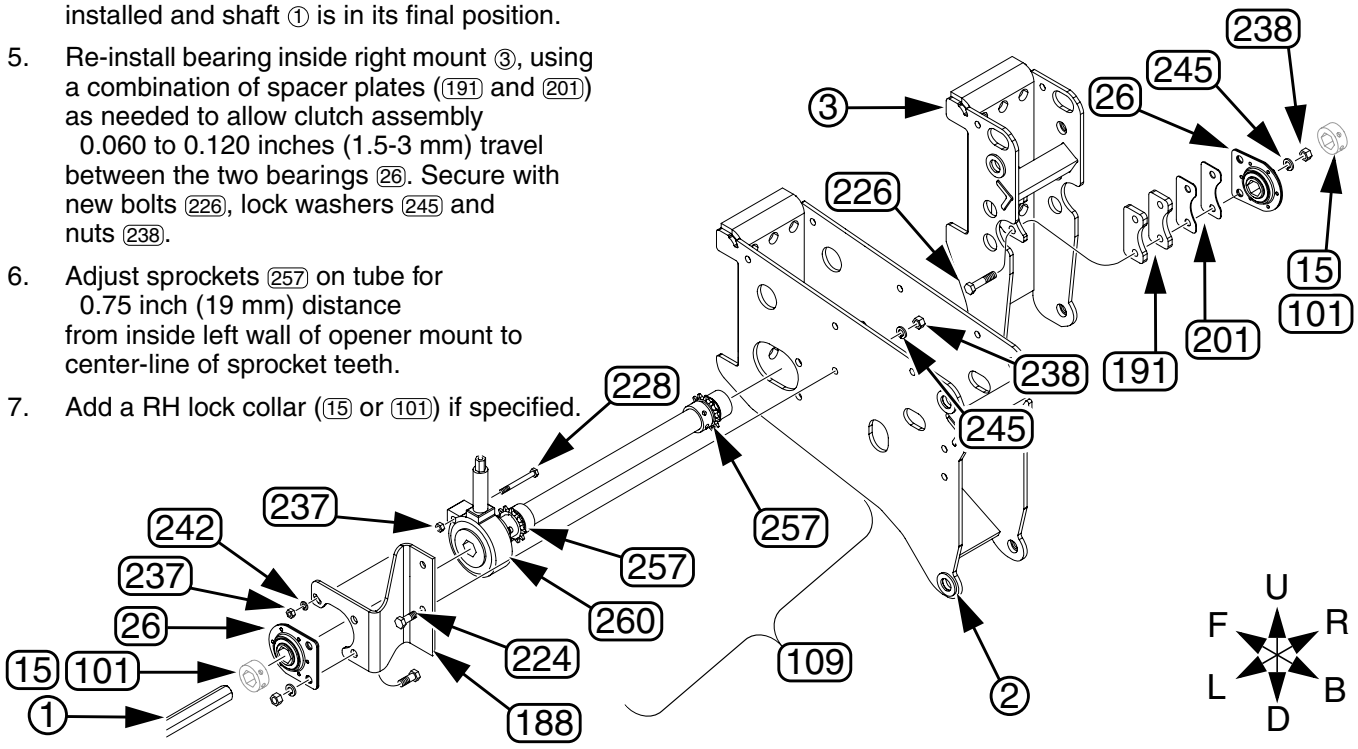
Steps:

This installation relocates both original bearings (26), presumed to be removed.

1. Add a lock collar ((15) or (101)) to shaft ① before installing the clutch only if specified on the clutch layout drawing for your planter and kit. Not all rows may have collars.Do not secure set screws until all clutches are installed and shaft ① is in its final position.
2. Mount a saved bearing (26) outside (LH) the offset bracket (188), using saved bolts, lock washers and nuts.
3. If the clutch (260) is not attached to the offset bracket, insert bolt (228) through the anti-rotation foot. Add a jam nut (237). Insert the bolt end through the bracket. Add a lock washer (242) and another nut (237). Tighten nuts only to Grade 2 torque.
4. Insert the clutch assembly (109) through the left side of the long mount ②. Loop meter chains for both rows (not shown) over clutch tube. Secure bracket (188) with two sets bolts (224), lock washers (245) and nuts (238).

   Do not adjust chain slack until all clutches are installed and shaft ① is in its final position.
5. Re-install bearing inside right mount ③, using a combination of spacer plates ((191) and (201)) as needed to allow clutch assembly 0.060 to 0.120 inches (1.5-3 mm) travel between the two bearings (26). Secure with new bolts (226), lock washers (245) and nuts (238).
6. Adjust sprockets (257) on tube for 0.75 inch (19 mm) distance from inside left wall of opener mount to center-line of sprocket teeth.
7. Add a RH lock collar ((15) or (101)) if specified.

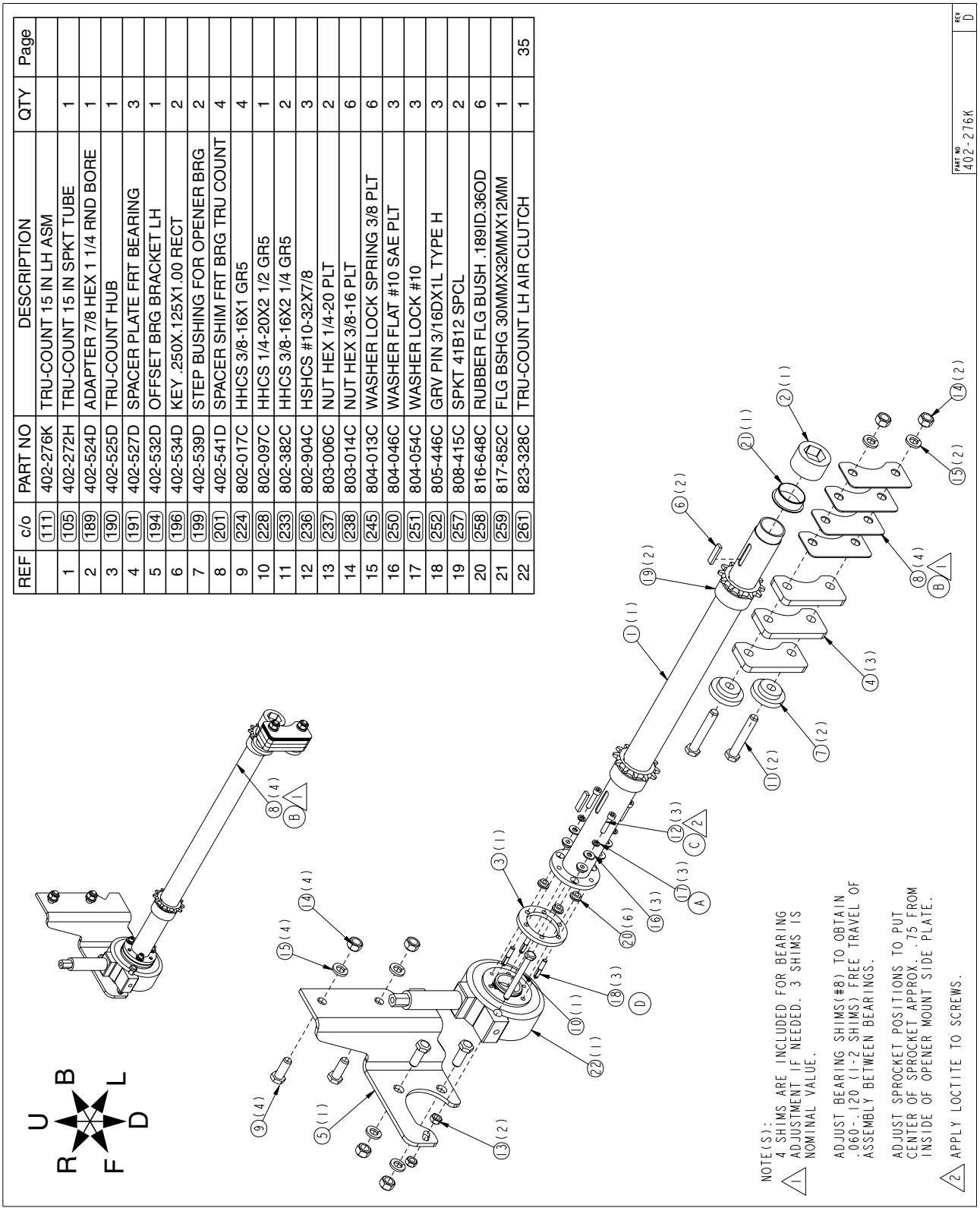
c/o	PART NO	DESCRIPTION	Page
(15)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(26)	822-239C	PEER 7/8 HEX BRG AND MNT (TYP ROW)	
(101)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(109)	402-275K	TRU-COUNT 15 IN ASM	38
(188)	402-523D	OFFSET BRG BRACKET	
(191)	402-527D	SPACER PLATE FRT BEARING	
(201)	402-541D	SPACER SHIM FRT BRG TRU COUNT	
(224)	802-017C	HHCS 3/8-16X1 GR5	
(226)	802-023C	HHCS 3/8-16X1 3/4 GR5	
(228)	802-097C	HHCS 1/4-20X2 1/2 GR5	
(237)	803-006C	NUT HEX 1/4-20 PLT	
(238)	803-014C	NUT HEX 3/8-16 PLT	
(242)	804-006C	WASHER LOCK SPRING 1/4 PLT	
(245)	804-013C	WASHER LOCK SPRING 3/8 PLT	
(257)	808-415C	SPKT 41B12 SPCL	
(260)	823-327C	TRUE COUNT RH AIR CLUTCH	34



32206

Figure 37
402-275K-ASY Two-Row 15 Inch (RH Clutch) Installation Details

402-276K Two-Row LH 15-Inch



REF	c/o	PART NO	DESCRIPTION	QTY	Page
	(111)	402-276K	TRU-COUNT 15 IN LH ASM		
1	(105)	402-272H	TRU-COUNT 15 IN SPKT TUBE	1	
2	(189)	402-524D	ADAPTER 7/8 HEX 1 1/4 RND BORE	1	
3	(190)	402-525D	TRU-COUNT HUB	1	
4	(191)	402-527D	SPACER PLATE FRT BEARING	3	
5	(194)	402-532D	OFFSET BRG BRACKET LH	1	
6	(196)	402-534D	KEY .250X.125X1.00 RECT	2	
7	(199)	402-539D	STEP BUSHING FOR OPENER BRG	2	
8	(201)	402-541D	SPACER SHIM FRT BRG TRU COUNT	4	
9	(224)	802-017C	HHCS 3/8-16X1 GR5	4	
10	(228)	802-097C	HHCS 1/4-20X2 1/2 GR5	1	
11	(233)	802-382C	HHCS 3/8-16X2 1/4 GR5	2	
12	(236)	802-904C	HSHCS #10-32X7/8	3	
13	(237)	803-006C	NUT HEX 1/4-20 PLT	2	
14	(238)	803-014C	NUT HEX 3/8-16 PLT	6	
15	(245)	804-013C	WASHER LOCK SPRING 3/8 PLT	6	
16	(250)	804-046C	WASHER FLAT #10 SAE PLT	3	
17	(251)	804-054C	WASHER LOCK #10	3	
18	(252)	805-446C	GRV PIN 3/16DX1L TYPE H	3	
19	(257)	808-415C	SPKT 41B12 SPCL	2	
20	(258)	816-648C	RUBBER FLG BUSH .189ID.36OD	6	
21	(259)	817-852C	FLG BSHG 30MMX32MMX12MM	1	
22	(261)	823-328C	TRU-COUNT LH AIR CLUTCH	1	35

402-276K-ASY: 402-276K Installation Details

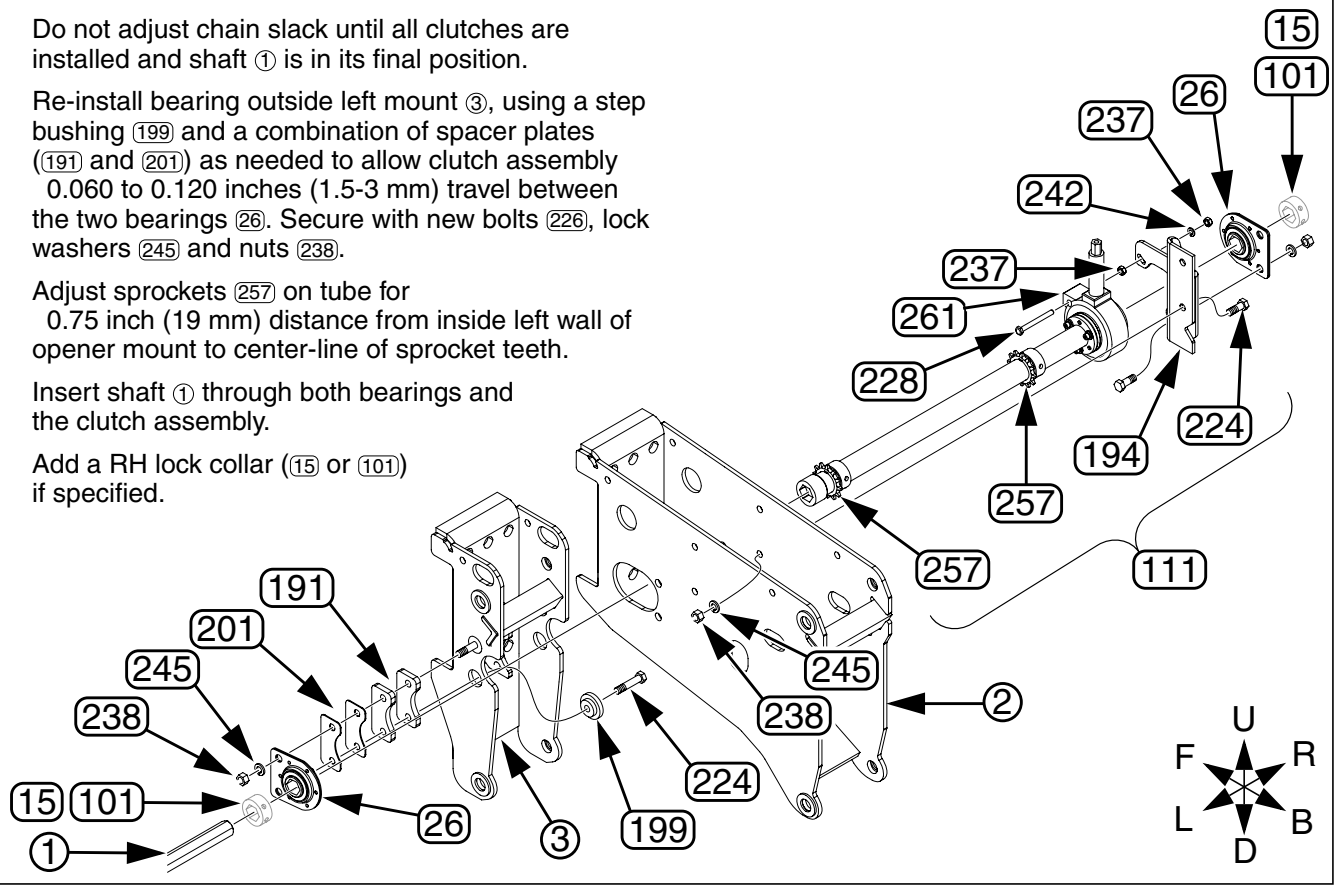
Steps:

This installation relocates both original bearings (26), presumed to be removed.

1. Add a lock collar ((15) or (101)) to shaft ① before installing the clutch only if specified on the clutch layout drawing for your planter and kit. Not all rows have collars. Secure set screws after all clutches are installed and shaft ① is in its final position.
2. Mount saved bearing (26) outside (RH) offset bracket (194), using saved bolts, lock washers and nuts.
3. If the clutch (261) is not attached to the offset bracket, insert bolt (228) through the anti-rotation foot. Add a jam nut (237). Insert the bolt end through the bracket. Add a lock washer (242) and another nut (237). Tighten nuts only to Grade 2 torque.
4. Insert the clutch assembly through the right side of the long mount ②. Loop meter chains for both rows (not shown) over clutch tube. Secure bracket (188) with two sets bolts (224), lock washers (245) and nuts (238).

   Do not adjust chain slack until all clutches are installed and shaft ① is in its final position.
5. Re-install bearing outside left mount ③, using a step bushing (199) and a combination of spacer plates ((191) and (201)) as needed to allow clutch assembly 0.060 to 0.120 inches (1.5-3 mm) travel between the two bearings (26). Secure with new bolts (226), lock washers (245) and nuts (238).
6. Adjust sprockets (257) on tube for 0.75 inch (19 mm) distance from inside left wall of opener mount to center-line of sprocket teeth.
7. Insert shaft ① through both bearings and the clutch assembly.
8. Add a RH lock collar ((15) or (101)) if specified.

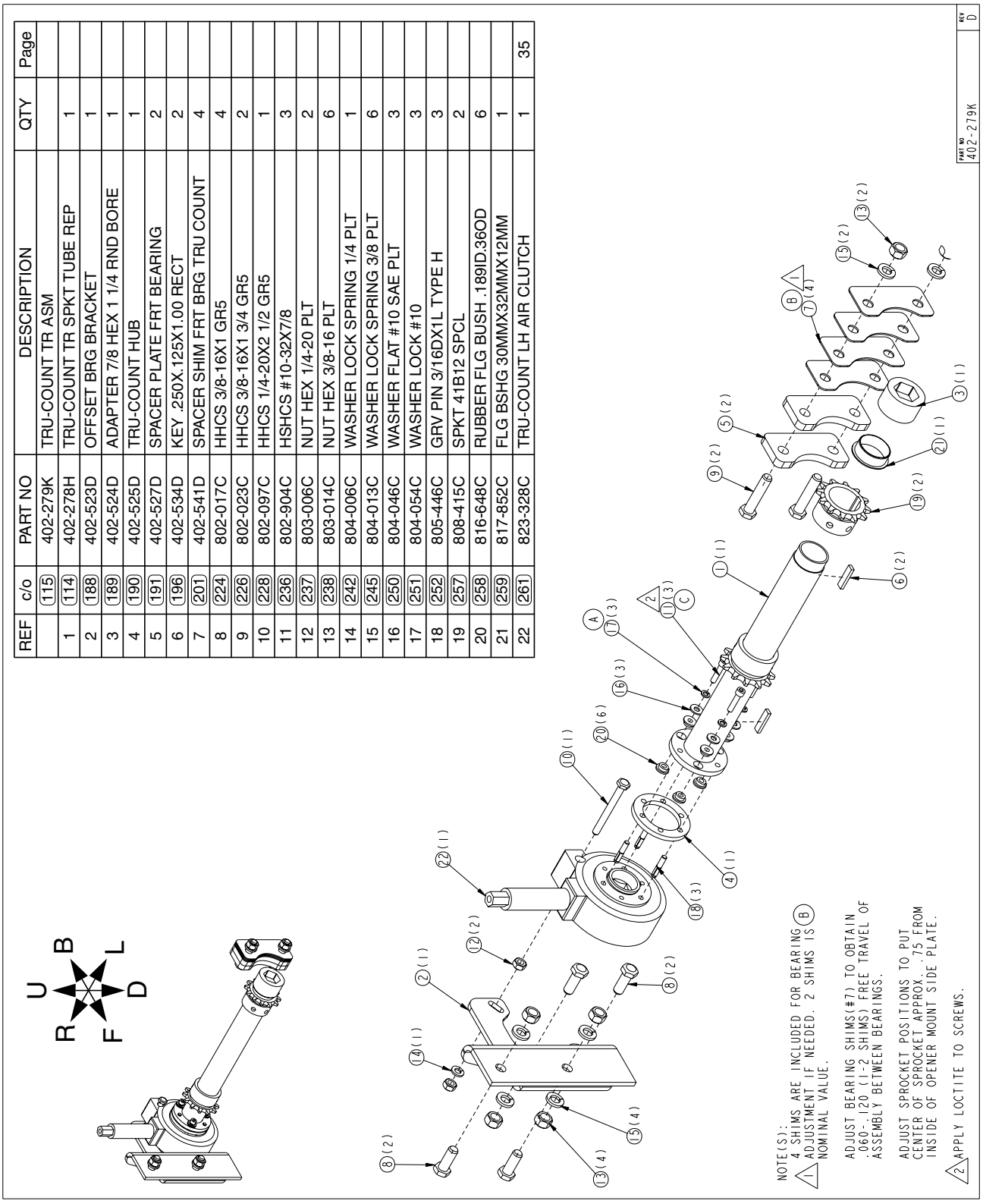
c/o	PART NO	DESCRIPTION	Page
(15)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(26)	822-239C	PEER 7/8 HEX BRG AND MNT (TYP ROW)	
(101)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(111)	402-276K	TRU-COUNT 15 IN LH ASM	40
(191)	402-527D	SPACER PLATE FRT BEARING	
(194)	402-532D	OFFSET BRG BRACKET LH	
(199)	402-539D	STEP BUSHING FOR OPENER BRG	
(201)	402-541D	SPACER SHIM FRT BRG TRU COUNT	
(224)	802-017C	HHCS 3/8-16X1 GR5	
(226)	802-023C	HHCS 3/8-16X1 3/4 GR5	
(228)	802-097C	HHCS 1/4-20X2 1/2 GR5	
(237)	803-006C	NUT HEX 1/4-20 PLT	
(238)	803-014C	NUT HEX 3/8-16 PLT	
(242)	804-006C	WASHER LOCK SPRING 1/4 PLT	
(245)	804-013C	WASHER LOCK SPRING 3/8 PLT	
(257)	808-415C	SPKT 41B12 SPCL	
(261)	823-328C	TRU-COUNT LH AIR CLUTCH	35



32207

Figure 38
402-275K-ASY Two-Row 15 Inch (LH Clutch) Installation Details

402-279K Twin-Row (RH Clutch)



REF	c/o	PART NO	DESCRIPTION	QTY	Page
	115	402-279K	TRU-COUNT TR ASM		
1	114	402-278H	TRU-COUNT TR SPKT TUBE REP	1	
2	188	402-523D	OFFSET BRG BRACKET	1	
3	189	402-524D	ADAPTER 7/8 HEX 1 1/4 RND BORE	1	
4	190	402-525D	TRU-COUNT HUB	1	
5	191	402-527D	SPACER PLATE FRT BEARING	2	
6	196	402-534D	KEY .250X.125X1.00 RECT	2	
7	201	402-541D	SPACER SHIM FRT BRG TRU COUNT	4	
8	224	802-017C	HHCS 3/8-16X1 GR5	4	
9	226	802-023C	HHCS 3/8-16X1 3/4 GR5	2	
10	228	802-097C	HHCS 1/4-20X2 1/2 GR5	1	
11	236	802-904C	HSHCS #10-32X7/8	3	
12	237	803-006C	NUT HEX 1/4-20 PLT	2	
13	238	803-014C	NUT HEX 3/8-16 PLT	6	
14	242	804-006C	WASHER LOCK SPRING 1/4 PLT	1	
15	245	804-013C	WASHER LOCK SPRING 3/8 PLT	6	
16	250	804-046C	WASHER FLAT #10 SAE PLT	3	
17	251	804-054C	WASHER LOCK #10	3	
18	252	805-446C	GRV PIN 3/16DX1L TYPE H	3	
19	257	808-415C	SPKT 41B12 SPCL	2	
20	258	816-648C	RUBBER FLG BUSH .189ID.36OD	6	
21	259	817-852C	FLG BSHG 30MMX32MMX12MM	1	
22	261	823-328C	TRU-COUNT LH AIR CLUTCH	1	35

402-279K-ASY: 402-279K Installation Details

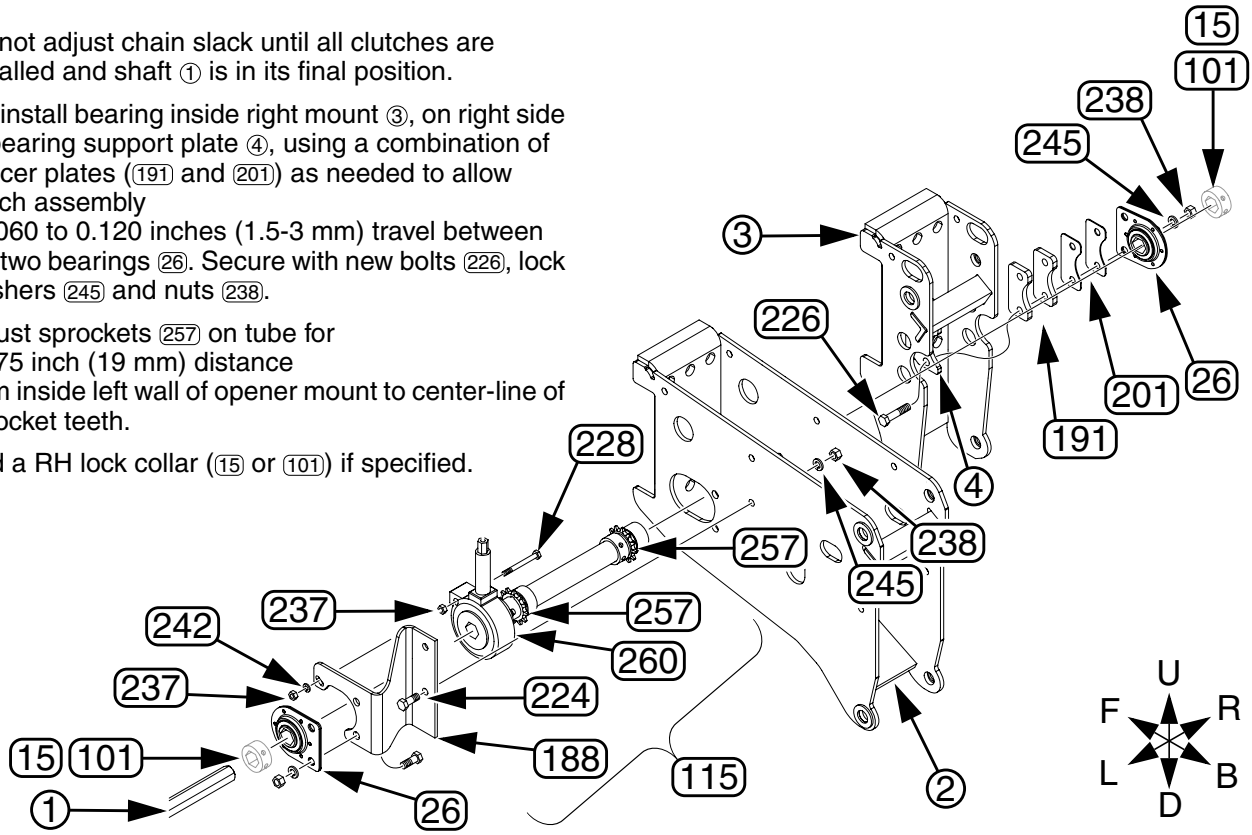
Steps:

This installation relocates both original bearings (26), presumed to be removed.

1. Add a lock collar ((15) or (101)) to shaft ① before installing the clutch only if specified on the clutch layout drawing for your planter and kit. Not all rows may have collars.Do not secure set screws until all clutches are installed and shaft ① is in its final position.
2. Mount a saved bearing (26) outside (LH) the offset bracket (188), using saved bolts, lock washers and nuts.
3. If the clutch (260) is not attached to the offset bracket, insert bolt (228) through the anti-rotation foot. Add a jam nut (237). Insert the bolt end through the bracket. Add a lock washer (242) and another nut (237). Tighten nuts only to Grade 2 torque.
4. Insert the clutch assembly (115) through the left side of the long mount ②. Loop meter chains for both rows (not shown) over clutch tube. Secure bracket (188) with two sets bolts (224), lock washers (245) and nuts (238).

   Do not adjust chain slack until all clutches are installed and shaft ① is in its final position.
5. Re-install bearing inside right mount ③, on right side of bearing support plate ④, using a combination of spacer plates ((191) and (201)) as needed to allow clutch assembly
   0.060 to 0.120 inches (1.5-3 mm) travel between the two bearings (26). Secure with new bolts (226), lock washers (245) and nuts (238).
6. Adjust sprockets (257) on tube for
   0.75 inch (19 mm) distance
   from inside left wall of opener mount to center-line of sprocket teeth.
7. Add a RH lock collar ((15) or (101)) if specified.

c/o	PART NO	DESCRIPTION	Page
(15)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(26)	822-239C	PEER 7/8 HEX BRG AND MNT (TYP ROW)	
(101)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(115)	402-279K	TRU-COUNT TR ASM	40
(188)	402-523D	OFFSET BRG BRACKET	
(191)	402-527D	SPACER PLATE FRT BEARING	
(201)	402-541D	SPACER SHIM FRT BRG TRU COUNT	
(224)	802-017C	HHCS 3/8-16X1 GR5	
(226)	802-023C	HHCS 3/8-16X1 3/4 GR5	
(228)	802-097C	HHCS 1/4-20X2 1/2 GR5	
(237)	803-006C	NUT HEX 1/4-20 PLT	
(238)	803-014C	NUT HEX 3/8-16 PLT	
(242)	804-006C	WASHER LOCK SPRING 1/4 PLT	
(245)	804-013C	WASHER LOCK SPRING 3/8 PLT	
(257)	808-415C	SPKT 41B12 SPCL	
(260)	823-327C	TRUE COUNT RH AIR CLUTCH	34

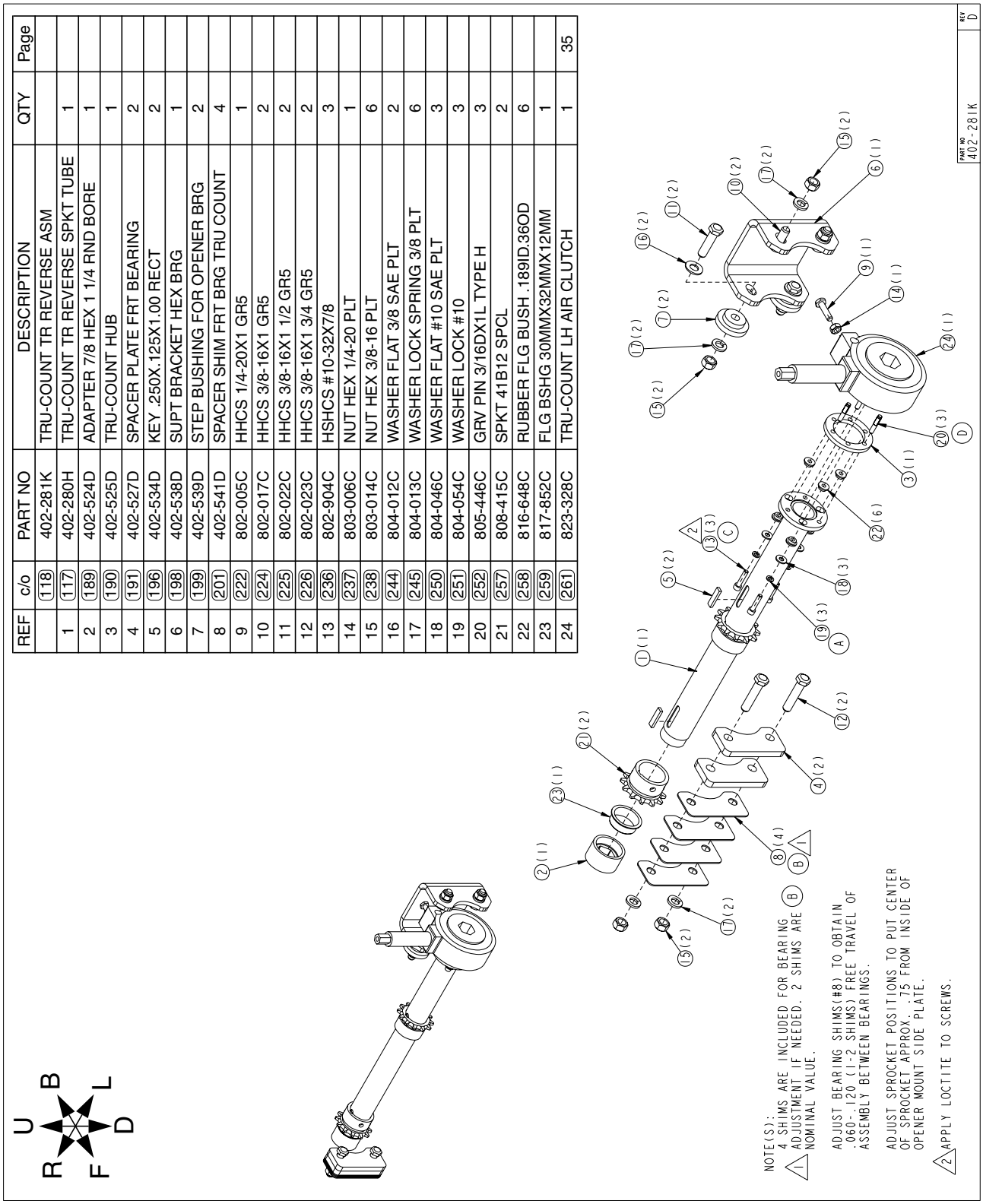


32208

Figure 39
402-279K-ASY Twin-Row (RH Clutch) Installation Details

402-281K Twin-Row Reverse (LH Clutch)

REF	c/o	PART NO	DESCRIPTION	QTY	Page
	118	402-281K	TRU-COUNT TR REVERSE ASM		
1	117	402-280H	TRU-COUNT TR REVERSE SPKT TUBE	1	
2	189	402-524D	ADAPTER 7/8 HEX 1 1/4 RND BORE	1	
3	190	402-525D	TRU-COUNT HUB	1	
4	191	402-527D	SPACER PLATE FRT BEARING	2	
5	196	402-534D	KEY .250X.125X1.00 RECT	2	
6	198	402-538D	SUPT BRACKET HEX BRG	1	
7	199	402-539D	STEP BUSHING FOR OPENER BRG	2	
8	201	402-541D	SPACER SHIM FRT BRG TRU COUNT	4	
9	222	802-005C	HHCS 1/4-20X1 GR5	1	
10	224	802-017C	HHCS 3/8-16X1 GR5	2	
11	225	802-022C	HHCS 3/8-16X1 1/2 GR5	2	
12	226	802-023C	HHCS 3/8-16X1 3/4 GR5	2	
13	236	802-904C	HSHCS #10-32X7/8	3	
14	237	803-006C	NUT HEX 1/4-20 PLT	1	
15	238	803-014C	NUT HEX 3/8-16 PLT	6	
16	244	804-012C	WASHER FLAT 3/8 SAE PLT	2	
17	245	804-013C	WASHER LOCK SPRING 3/8 PLT	6	
18	250	804-046C	WASHER FLAT #10 SAE PLT	3	
19	251	804-054C	WASHER LOCK #10	3	
20	252	805-446C	GRV PIN 3/16DX1L TYPE H	3	
21	257	808-415C	SPKT 41B12 SPCL	2	
22	258	816-648C	RUBBER FLG BUSH .189ID.36OD	6	
23	259	817-852C	FLG BSHG 30MMX32MMX12MM	1	
24	261	823-328C	TRU-COUNT LH AIR CLUTCH	1	35



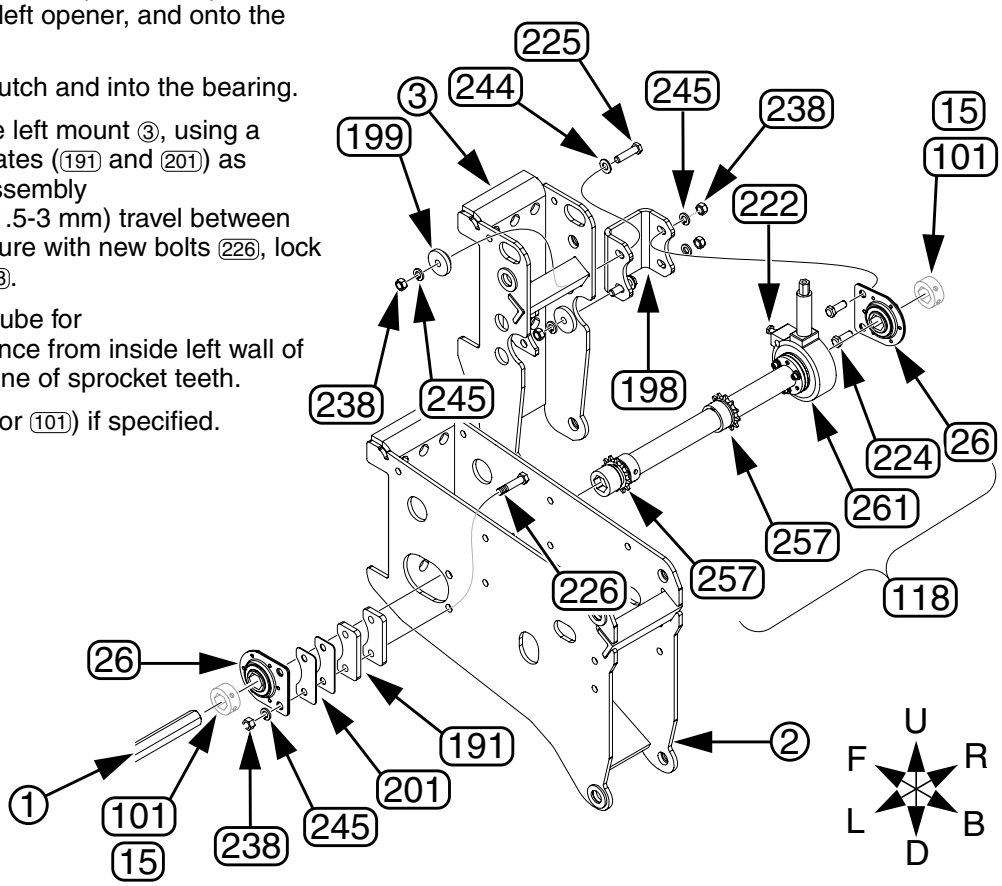
402-281K-ASY: 402-281K Installation Details

Steps:

This installation relocates both original bearings (26), presumed to be removed.

1. Add a lock collar ((15) or (101)) to shaft ① before installing the clutch only if specified on the clutch layout drawing for your planter and kit. Not all rows have collars. Do not secure set screws until all clutches are installed and shaft ① is in its final position.
2. Mount the support bracket (198) to the RH side of the front (right) opener mount, using two new bolts (225), flat washers (244) step bushings (199), lock washers (245) and nuts (238).
3. Add a bearing (26) to the shaft ①. Slide the shaft into the left opener mount ②. Loop meter chain (not shown) onto shaft.
4. Mount a saved bearing (26) inside the right bracket, using new bolts (224), lock washers (245) and nuts (238).
5. Slide the clutch assembly (261), with the clutch to the right into the right opener chain (not shown), and then the right side of the left opener, and onto the shaft.
6. Slide the shaft through clutch and into the bearing.
7. Re-install bearing outside left mount ③, using a combination of spacer plates ((191) and (201)) as needed to allow clutch assembly
   0.060 to 0.120 inches (1.5-3 mm) travel between the two bearings (26). Secure with new bolts (226), lock washers (245) and nuts (238).
8. Adjust sprockets (257) on tube for
   0.75 inch (19 mm) distance from inside left wall of opener mount to center-line of sprocket teeth.
9. Add a RH lock collar ((15) or (101)) if specified.

c/o	PART NO	DESCRIPTION	Page
(15)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(26)	822-239C	PEER 7/8 HEX BRG AND MNT (TYP ROW)	
(101)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(118)	402-281K	TRU-COUNT TR REVERSE ASM	44
(191)	402-527D	SPACER PLATE FRT BEARING	
(198)	402-538D	SUPT BRACKET HEX BRG	
(199)	402-539D	STEP BUSHING FOR OPENER BRG	
(201)	402-541D	SPACER SHIM FRT BRG TRU COUNT	
(222)	802-005C	HHCS 1/4-20X1 GR5	
(224)	802-017C	HHCS 3/8-16X1 GR5	
(225)	802-022C	HHCS 3/8-16X1 1/2 GR5	
(226)	802-023C	HHCS 3/8-16X1 3/4 GR5	
(238)	803-014C	NUT HEX 3/8-16 PLT	
(244)	804-012C	WASHER FLAT 3/8 SAE PLT	
(245)	804-013C	WASHER LOCK SPRING 3/8 PLT	
(257)	808-415C	SPKT 41B12 SPCL	
(261)	823-328C	TRU-COUNT LH AIR CLUTCH	35

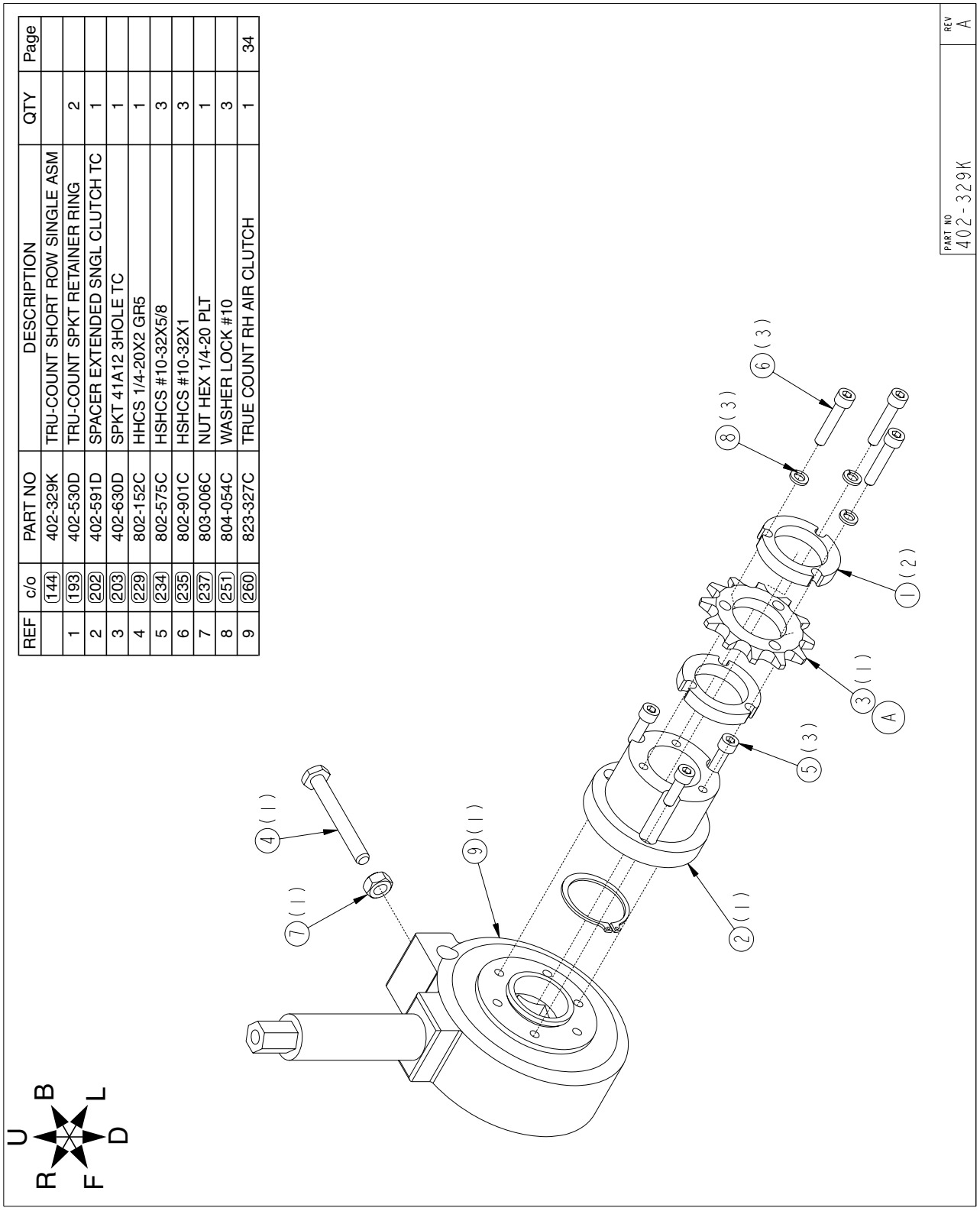


32209

Figure 40
402-281K-ASY Twin Row Reverse (LH Clutch) Installation Details

402-329K Single-Row Short Mount (RH Clutch)

REF	c/o	PART NO	DESCRIPTION	QTY	Page
	(144)	402-329K	TRU-COUNT SHORT ROW SINGLE ASM		
1	(193)	402-530D	TRU-COUNT SPKT RETAINER RING	2	
2	(202)	402-591D	SPACER EXTENDED SNGL CLUTCH TC	1	
3	(203)	402-630D	SPKT 41A12 3HOLE TC	1	
4	(229)	802-152C	HHCS 1/4-20X2 GR5	1	
5	(234)	802-575C	HSHCS #10-32X5/8	3	
6	(235)	802-901C	HSHCS #10-32X1	3	
7	(237)	803-006C	NUT HEX 1/4-20 PLT	1	
8	(251)	804-054C	WASHER LOCK #10	3	
9	(260)	823-327C	TRUE COUNT RH AIR CLUTCH	1	34



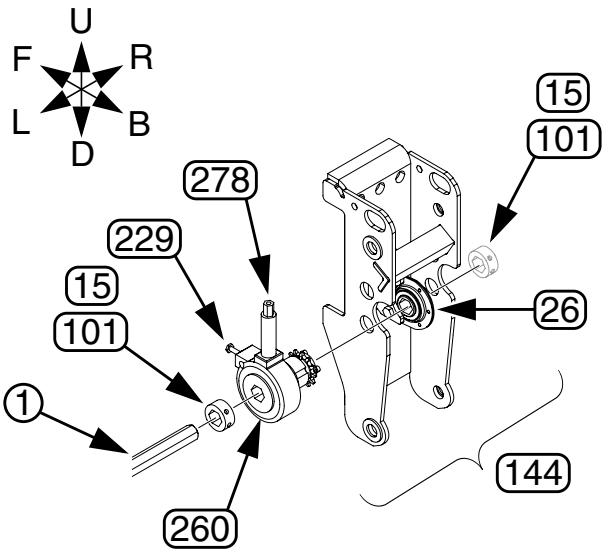
402-329K-ASY: 402-329K Installation Details

Steps:

This installation presumes that the original bearing (26) is still in place.

1. Add a lock collar ((15) or (101)) to that shaft (1) before installing the clutch. Do not secure set screws until all clutches are installed and shaft (1) is in its final position.
2. Add the clutch assembly (260) to the shaft, with anti-rotation bolt (229) forward and the cylinder (278) up. Loop meter chain (not shown) over sprocket on clutch.
3. Loosen the nuts securing the bearing flangettes (26) at the bearing support plate.
4. Slide the shaft through the bearing.
5. Add a RH lock collar ((15) or (101)) if specified on the clutch layout drawing.

c/o	PART NO	DESCRIPTION	Page
(15)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(26)	822-239C	PEER 7/8 HEX BRG AND MNT (TYP ROW)	
(101)	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC	
(144)	402-329K	TRU-COUNT SHORT ROW SINGLE ASM	46
(260)	823-327C	TRUE COUNT RH AIR CLUTCH	34
(278)	TC-68824-01	AIR CYLINDER ASSY	



32210

Figure 41
402-329K-ASY Single-Row Short Mount (RH Clutch) Installation Details

Swath Command™ Planter Clutch Layouts

Kit: 402-375A Clutch Layout: YP4025, 31-Row

Layout applies to Planter Models: YP4025-3115, YP4025A-3115

Layout also applies to Option 57 factory bundle: 402-277A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Section	Left Wing										Center										Right Wing										
CFM Switch	1/Left										2/Center						3/Right														
WSMB-TCOM	Left Wing WSMB-TCOM																														
TCOM Output	Out 1				Out 2				Out 3				Out 4				Out 5				Out 6				Out 7				Out 8		
Valve Block	Left Wing Valve Block																Right Wing Valve Block														
Valve Port	V 1				V 2				V 3				V 4				V 1				V 2				V 3				V 4		
Tee	⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥		
Clutch No.	1		2		3		4		5		6		7		8		9		10		11	12		13		14		15		16	
Clutch Type	402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-273K =	402-276K =		402-276K =		402-276K =		402-276K =		402-276K =	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

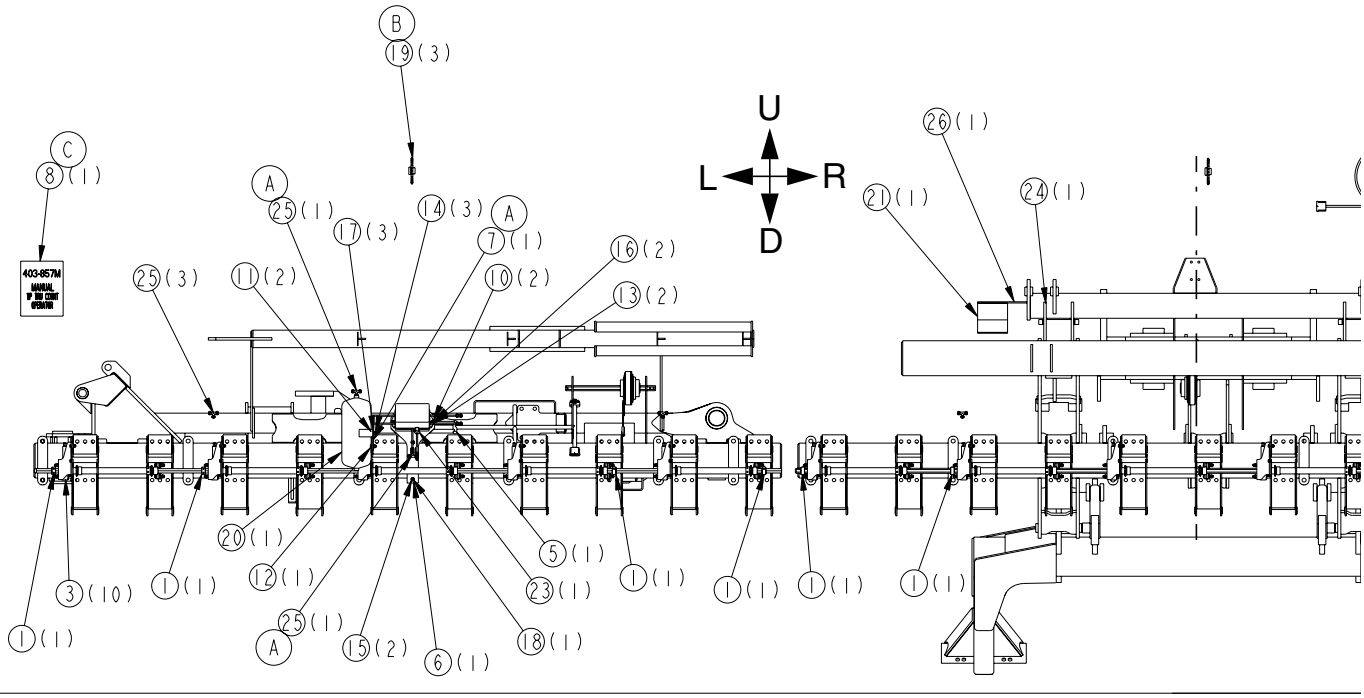


Figure 42
LH: Kit: 402-375A Clutch Layout: YP4025, 31-Row

402-277A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	106	402-273K	TRU-COUNT SINGLE ROW ASM
3	109	402-275K	TRU-COUNT 15 IN ASM
4	111	402-276K	TRU-COUNT 15 IN LH ASM
5	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
6	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
7	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
8	204	403-857M	MANUAL YP TRU COUNT OPERATOR
9	212	404-863K	TRU-COUNT COMP MOUNT ASM
10	221	802-004C	HHCS 1/4-20X3/4 GR5
11	223	802-014C	HHCS 3/8-16X3/4 GR5
12	224	802-017C	HHCS 3/8-16X1 GR5
13	237	803-006C	NUT HEX 1/4-20 PLT
14	238	803-014C	NUT HEX 3/8-16 PLT
15	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
16	243	804-007C	WASHER FLAT 1/4 SAE PLT
17	243	804-013C	WASHER FLAT 1/4 SAE PLT
18	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
19	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
20	262	823-329C	TRU-COUNT AIR TANK ASM
21	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
22	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
23	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
24	273	830-383C	CP 1/4 PUSH LOK POLY
25	274	830-405C	TE POLY 1/4 PUSH LOCK
26	275	990-109R	TUBE NYLON 1/4OD X 062WL

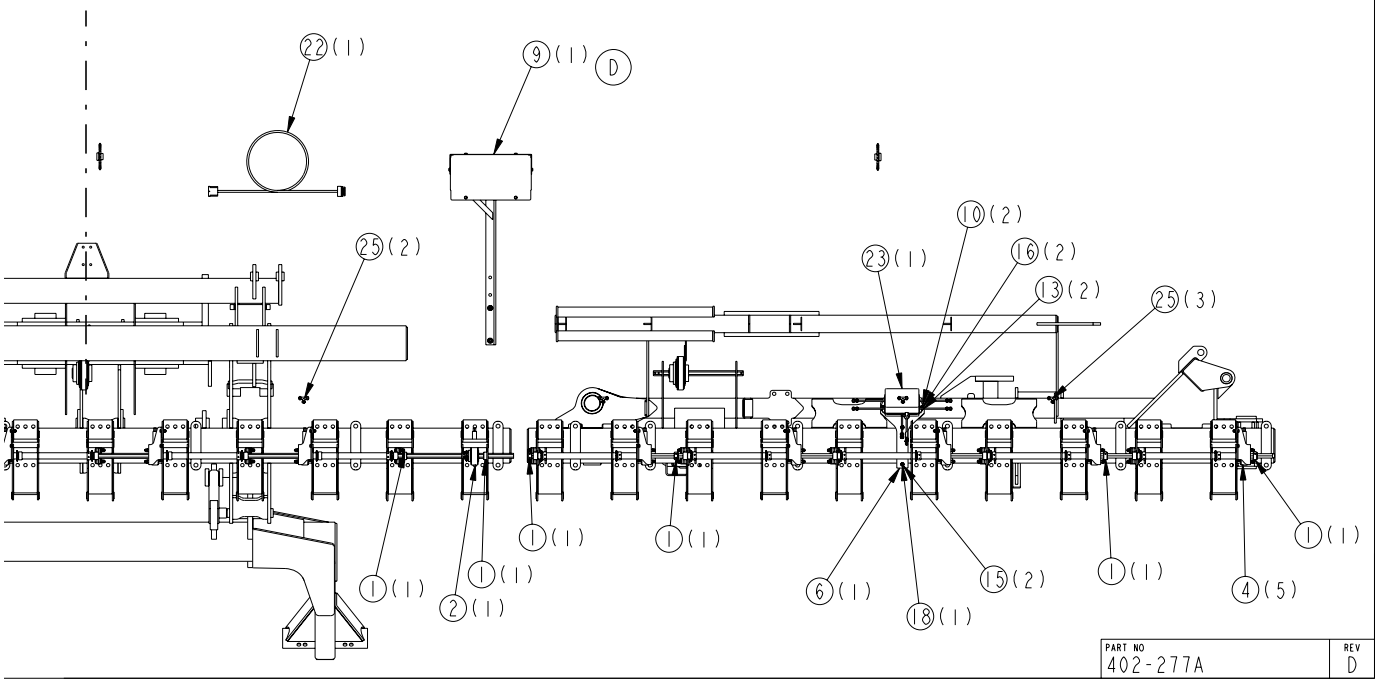


Figure 43
RH: Kit: 402-375A Clutch Layout: YP4025, 31-Row

402-277A

Kit: 402-376A Clutch Layout: YP4025, 32 Twin Row

Layout applies to Planter Models: YP4025-32TR, YP4025-32TR70, YP4025A-32TR, YP4025A-32TR70

Layout also applies to Option 57 factory bundle: 402-282A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Section	Left Wing												Center												Right Wing							
CFM Switch	1/Left												2/Center												3/Right							
WSMB-TCOM	Left Wing WSMB-TCOM																															
TCOM Output	Out 1				Out 2				Out 3				Out 4				Out 5				Out 6				Out 7				Out 8			
Valve Block	Left Wing Valve Block																Right Wing Valve Block															
Valve, Port	V 1				V 2				V 3				V 4				V 1				V 2				V 3				V 4			
Tee	⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
Clutch Type	= 402-281K		402-279K =		402-279K =		402-279K =		402-279K =		= 402-281K		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

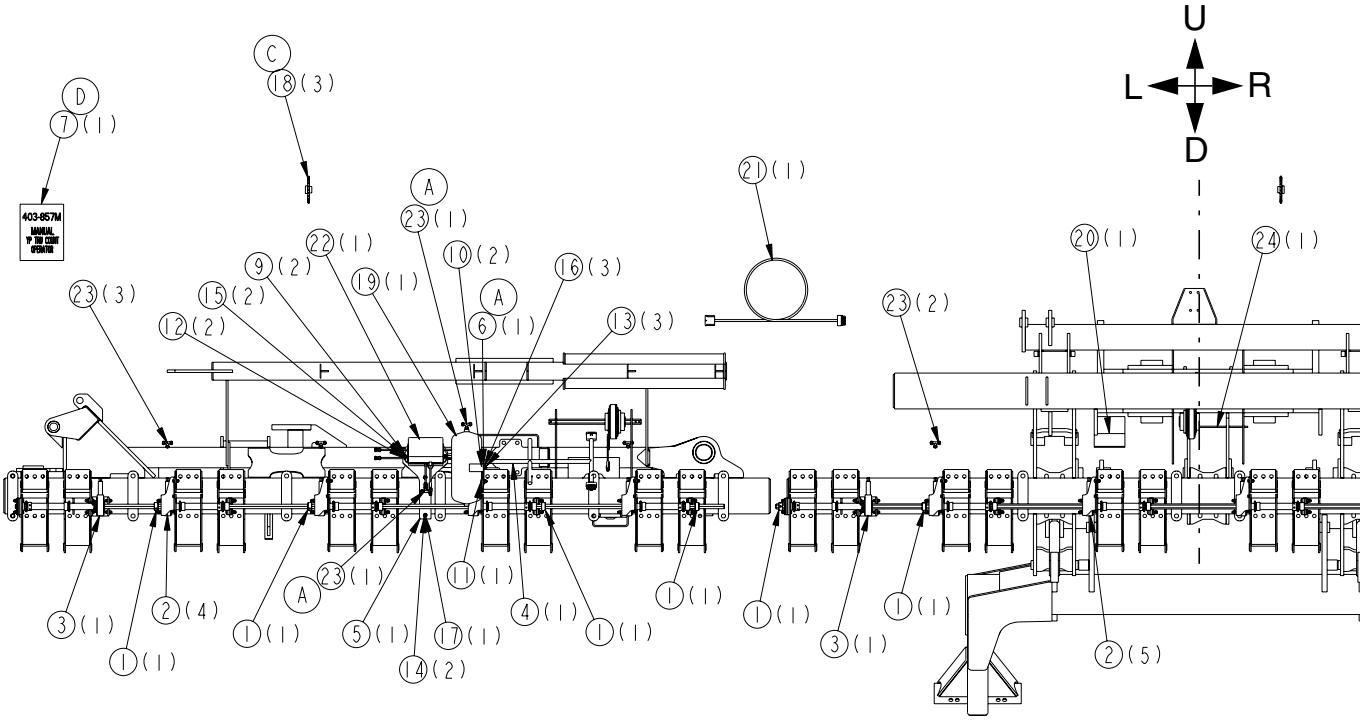


Figure 44
LH: Kit: 402-376A Clutch Layout: YP4025, 32 Twin Row

402-282A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	115	402-279K	TRU-COUNT TR ASM
3	118	402-281K	TRU-COUNT TR REVERSE ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
6	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
7	204	403-857M	MANUAL YP TRU COUNT OPERATOR
8	212	404-863K	TRU-COUNT COMP MOUNT ASM
9	221	802-004C	HHCS 1/4-20X3/4 GR5
10	223	802-014C	HHCS 3/8-16X3/4 GR5
11	224	802-017C	HHCS 3/8-16X1 GR5
12	237	803-006C	NUT HEX 1/4-20 PLT
13	238	803-014C	NUT HEX 3/8-16 PLT
14	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
15	243	804-007C	WASHER FLAT 1/4 SAE PLT
16	243	804-013C	WASHER FLAT 1/4 SAE PLT
17	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
18	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
19	262	823-329C	TRU-COUNT AIR TANK ASM
20	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
21	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
22	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
23	274	830-405C	TE POLY 1/4 PUSH LOCK
24	275	990-109R	TUBE NYLON 1/4OD X 062WL

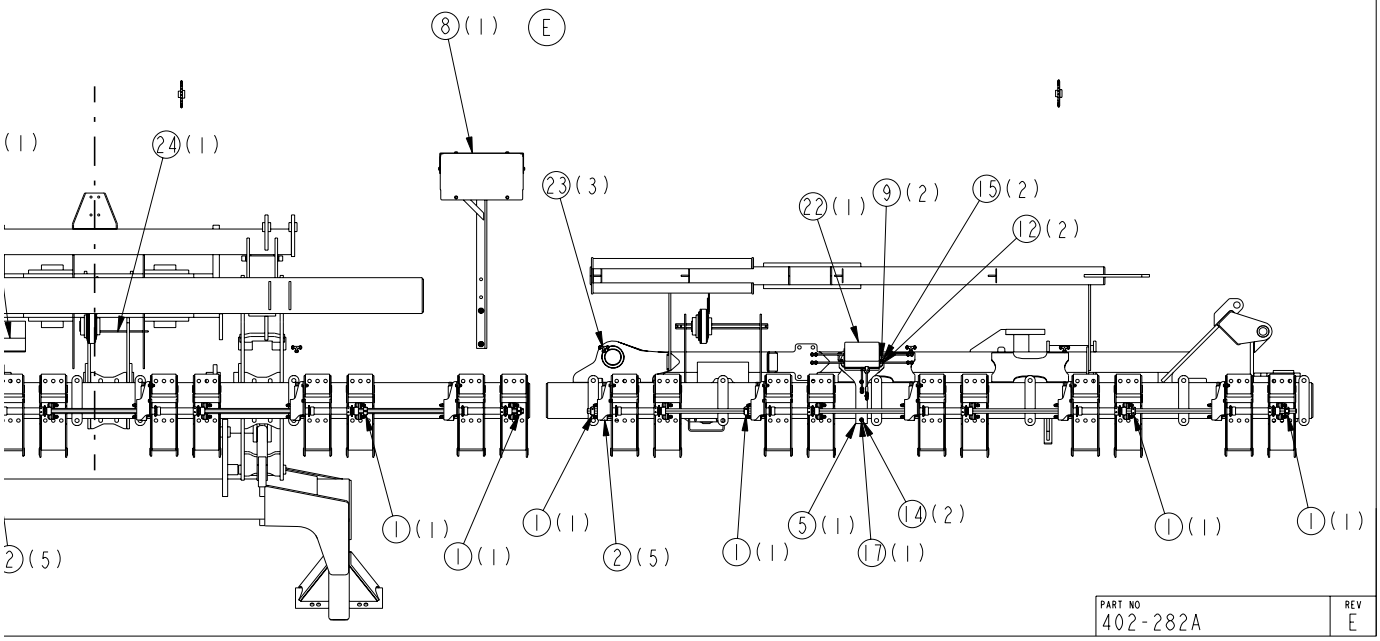


Figure 45
RH: Kit: 402-376A Clutch Layout: YP4025, 32 Twin Row

402-282A

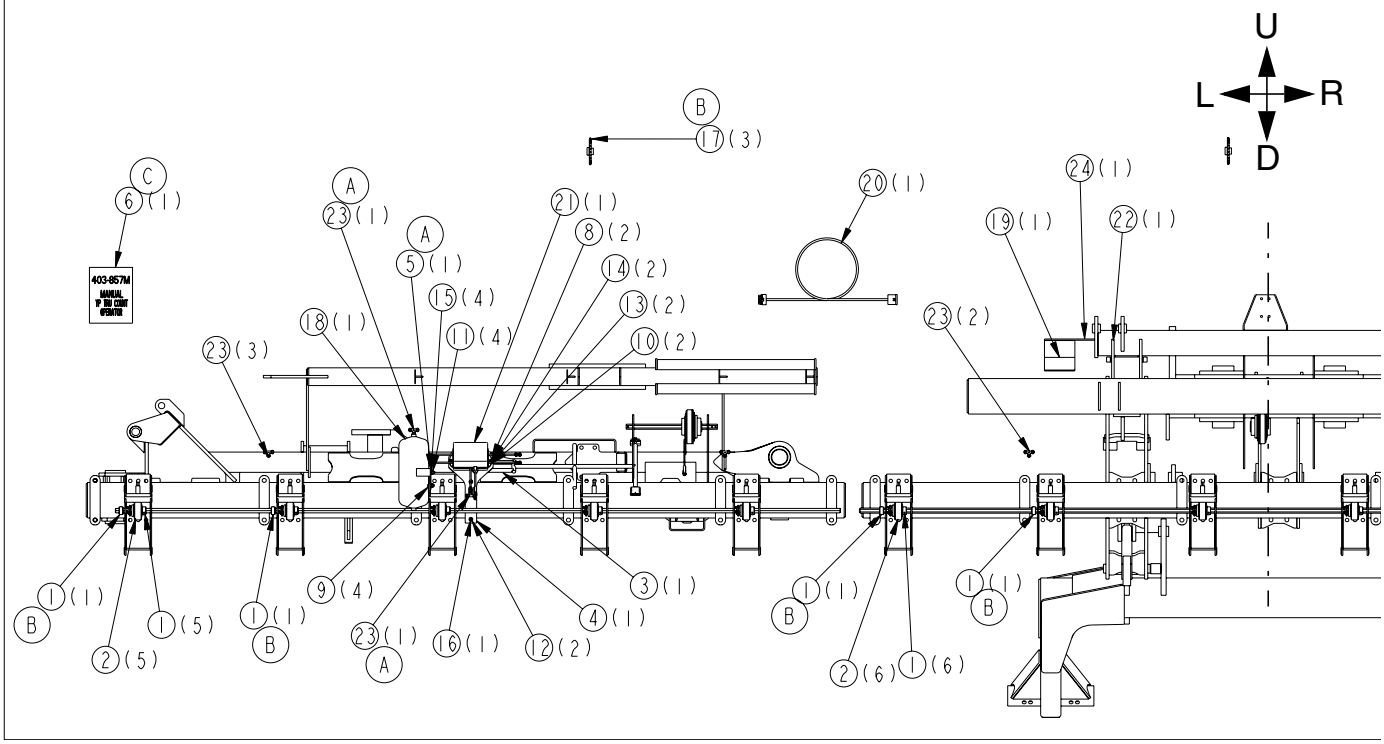
Kit: 402-377A Clutch Layout: YP4025, 16 Row

Layout applies to Planter Models:
YP4025-1630, YP4025-1670, YP4025A-1630, YP4025AF-1670, YP4025F-1630, YP4025F-1670

Layout also applies to Option 57 factory bundle: 402-283A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Section	Left Wing						Center						Right Wing			
CFM Switch	1/Left						2/Center				3/Right					
WSMB-TCOM	Left Wing WSMB-TCOM															
WSMB Output	Out 1		Out 2		Out 3		Out 4		Out 5		Out 6		Out 7		Out 8	
Valve Block	Left Wing Valve Block								Right Wing Valve Block							
Valve, Port	V 1		V 2		V 3		V 4		V 1		V 2		V 3		V 4	
Tee	⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥	
Clutch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Clutch Type	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16



402-283A

Figure 46
LH: Kit: 402-377A Clutch Layout: YP4025, 16 Row

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	106	402-273K	TRU-COUNT SINGLE ROW ASM
3	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
4	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
5	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
6	204	403-857M	MANUAL YP TRU COUNT OPERATOR
7	212	404-863K	TRU-COUNT COMP MOUNT ASM
8	221	802-004C	HHCS 1/4-20X3/4 GR5
9	223	802-014C	HHCS 3/8-16X3/4 GR5
10	224	802-017C	HHCS 3/8-16X1 GR5
11	237	803-006C	NUT HEX 1/4-20 PLT
12	238	803-014C	NUT HEX 3/8-16 PLT
13	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
14	243	804-007C	WASHER FLAT 1/4 SAE PLT
15	243	804-013C	WASHER FLAT 1/4 SAE PLT
16	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
17	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
18	262	823-329C	TRU-COUNT AIR TANK ASM
19	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
20	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
21	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
22	273	830-383C	CP 1/4 PUSH LOK POLY
23	274	830-405C	TE POLY 1/4 PUSH LOCK
24	275	990-109R	TUBE NYLON 1/4OD X 062WL

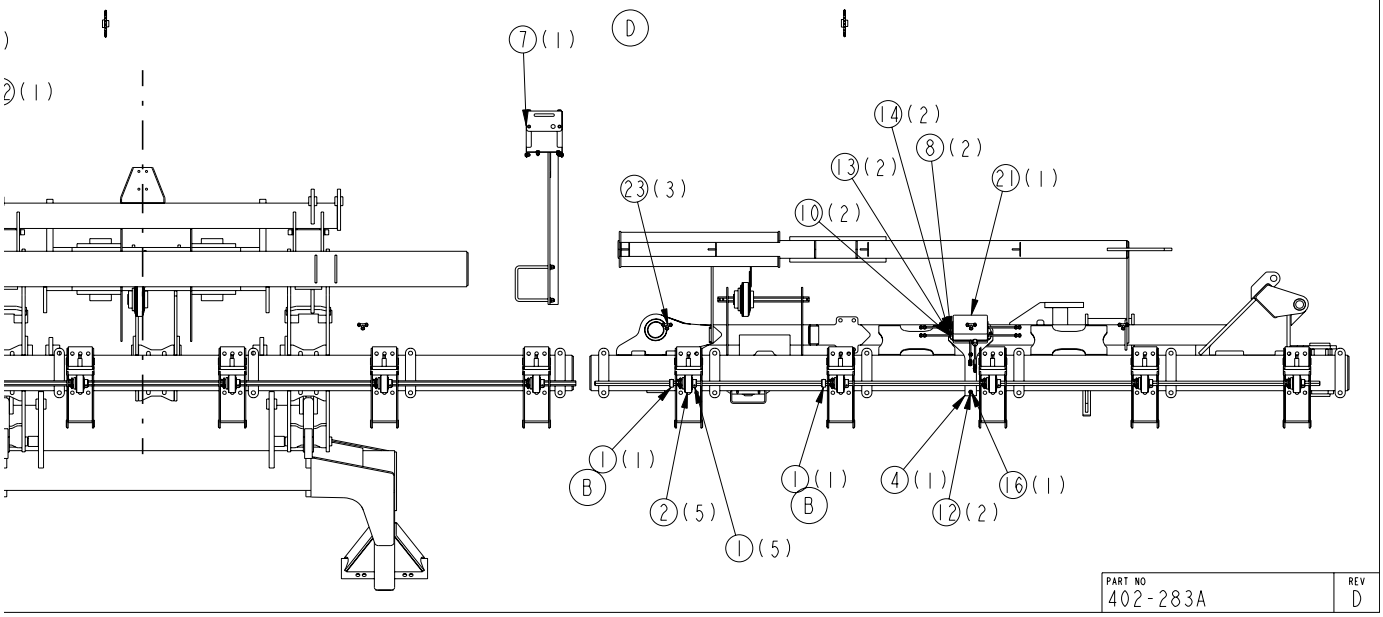


Figure 47
RH: Kit: 402-377A Clutch Layout: YP4025, 16 Row

402-283A

Kit: 402-378A Clutch Layout: YP4025, 32 Row

Layout applies to Planter Models: YP4025-3215, YP4025A-3215

Layout also applies to Option 57 factory bundle: 402-284A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Section	Left Wing												Center											Right Wing									
CFM Switch	1/Left												2/Center								3/Right											
WSMB-TCOM	Left Wing WSMB-TCOM																															
TCOM Output	Out 1				Out 2				Out 3				Out 4				Out 5				Out 6			Out 7				Out 8			
Valve Block	Left Wing Valve Block																Right Wing Valve Block															
Valve, Port	V 1				V 2				V 3				V 4				V 1				V 2			V 3				V 4			
Tee	⊥				⊥				⊥				⊥				⊥				⊥			⊥				⊥			
Tee	|		|		|		|		|		|		|		|		|		|		|		|		⊥			|
Clutch	1		2		3		4		5		6		7		8		9		10		11		12	13		14		15		16		17
Clutch Type	402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-273K =		402-276K	402-276K =		402-276K =		402-276K =		402-276K =		402-273K
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

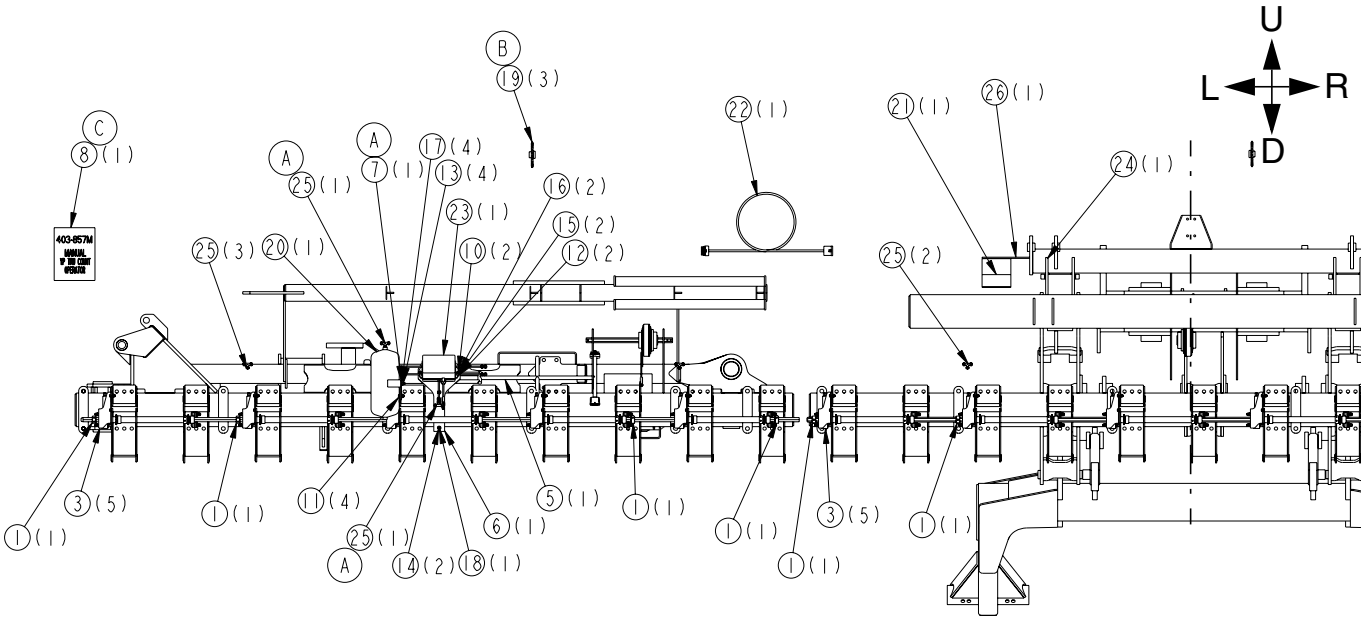


Figure 48
LH: Kit: 402-378A Clutch Layout: YP4025, 32 Row

402-284A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	106	402-273K	TRU-COUNT SINGLE ROW ASM
3	109	402-275K	TRU-COUNT 15 IN ASM
4	111	402-276K	TRU-COUNT 15 IN LH ASM
5	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
6	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
7	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
8	204	403-857M	MANUAL YP TRU COUNT OPERATOR
9	212	404-863K	TRU-COUNT COMP MOUNT ASM
10	221	802-004C	HHCS 1/4-20X3/4 GR5
11	223	802-014C	HHCS 3/8-16X3/4 GR5
12	224	802-017C	HHCS 3/8-16X1 GR5
13	237	803-006C	NUT HEX 1/4-20 PLT
14	238	803-014C	NUT HEX 3/8-16 PLT
15	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
16	242	804-006C	WASHER LOCK SPRING 1/4 PLT
17	243	804-007C	WASHER FLAT 1/4 SAE PLT
18	243	804-013C	WASHER FLAT 1/4 SAE PLT
19	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
20	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
21	262	823-329C	TRU-COUNT AIR TANK ASM
22	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
23	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
24	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
25	273	830-383C	CP 1/4 PUSH LOK POLY
26	274	830-405C	TE POLY 1/4 PUSH LOCK
27	275	990-109R	TUBE NYLON 1/4OD X 062WL

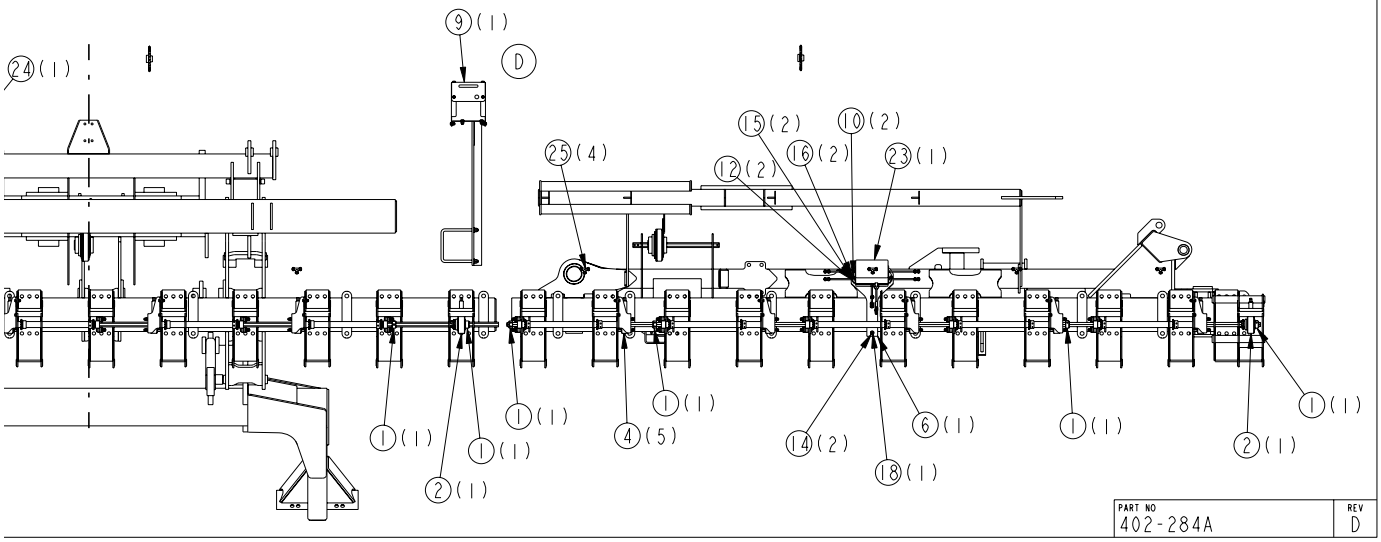


Figure 49
RH: Kit: 402-378A Clutch Layout: YP4025, 32 Row

402-284A

Kit: 402-379A Clutch Layout: YP1625, 24 Twin Row 36-Inch

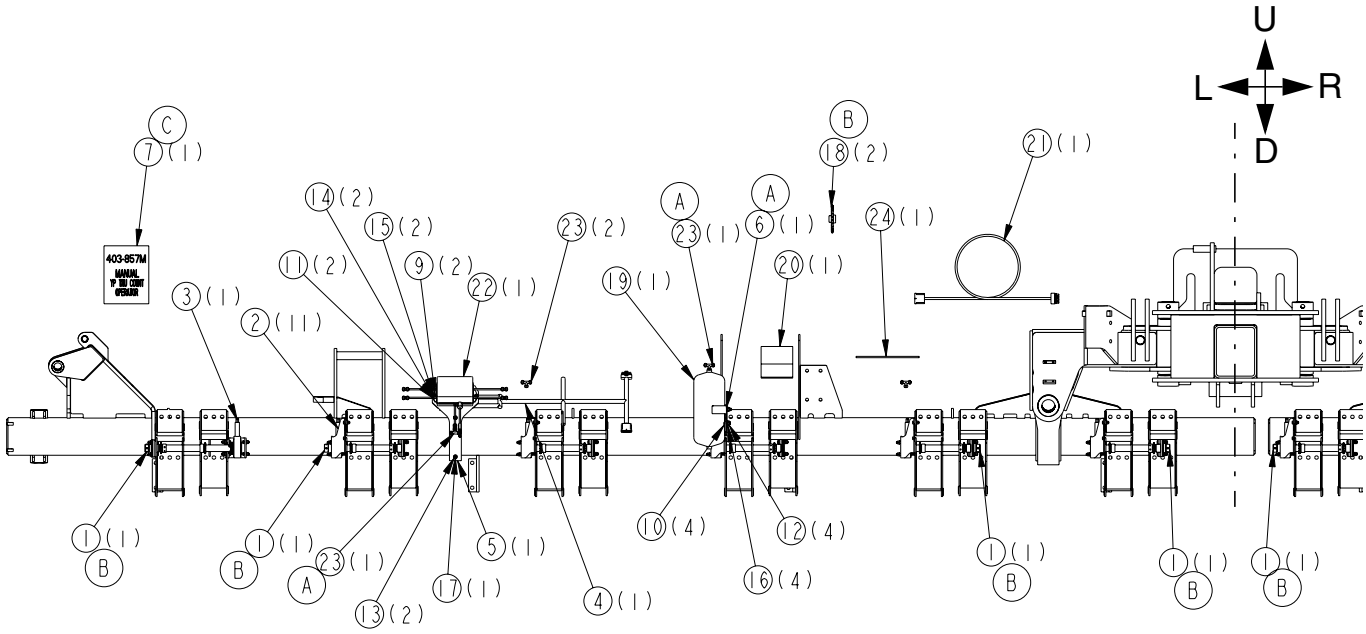
Layout applies to Planter Models: YP1625-24TR36, YP1625A-24TR36

Layout also applies to Option 57 factory bundle: 402-285A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Section	Left Wing												Right Wing											
CFM Switch	1/Left												2/Right											
WSMB-TCOM	Left Wing WSMB-TCOM																							
TCOM Output[a]	Out 1				Out 2				Out 3				Out 5				Out 6				Out 7			
Valve Block	Left Wing Valve Block												Right Wing Valve Block											
Valve, Port[b]	V 1				V 2				V 3				V 1				V 2				V 3			
Tee	⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8		9		10		11		12	
Clutch Type	402-281K		402-279K		402-279K		402-279K		402-279K		402-279K		402-279K		402-279K		402-279K		402-279K		402-279K		402-279K	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

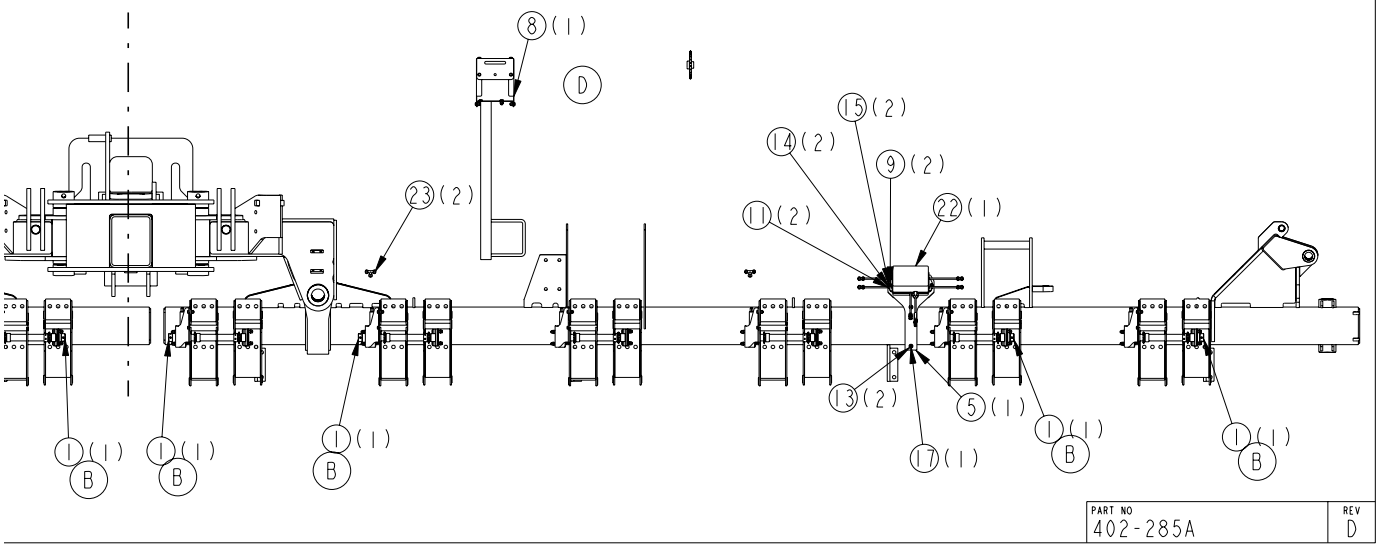
a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 on each block is unused.



402-285A

Figure 50
LH: Kit: 402-379A Clutch Layout: YP1625, 24 Twin Row 36-Inch

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	115	402-279K	TRU-COUNT TR ASM
3	118	402-281K	TRU-COUNT TR REVERSE ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
6	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
7	204	403-857M	MANUAL YP TRU COUNT OPERATOR
8	212	404-863K	TRU-COUNT COMP MOUNT ASM
9	222	802-005C	HHCS 1/4-20X1 GR5
10	224	802-017C	HHCS 3/8-16X1 GR5
11	237	803-006C	NUT HEX 1/4-20 PLT
12	238	803-014C	NUT HEX 3/8-16 PLT
13	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
14	242	804-006C	WASHER LOCK SPRING 1/4 PLT
15	243	804-007C	WASHER FLAT 1/4 SAE PLT
16	243	804-013C	WASHER FLAT 1/4 SAE PLT
17	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
18	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
19	262	823-329C	TRU-COUNT AIR TANK ASM
20	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
21	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
22	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
23	274	830-405C	TE POLY 1/4 PUSH LOCK
24	275	990-109R	TUBE NYLON 1/4OD X 062WL



402-285A

Figure 51
RH: Kit: 402-379A Clutch Layout: YP1625, 24 Twin Row 36-Inch

Kit: 402-380A Clutch Layout: YP1625, 16 Row

Layout applies to Planter Models: YP1625-1630, YP1625-1670, YP1625A-1630, YP1625A-1670

Layout also applies to Option 57 factory bundle: 402-286A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Section	1/Left								2/Right							
CFM Switch	1/Left								2/Right							
WSMB-TCOM	Left Wing WSMB-TCOM															
WSMB Output	Out 1		Out 2		Out 3		Out 4		Out 5		Out 6		Out 7		Out 8	
Valve Block	Left Wing Valve Block								Right Wing Valve Block							
Valve, Port	V 1		V 2		V 3		V 4		V 1		V 2		V 3		V 4	
Tee	⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥	
Clutch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Clutch Type	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16

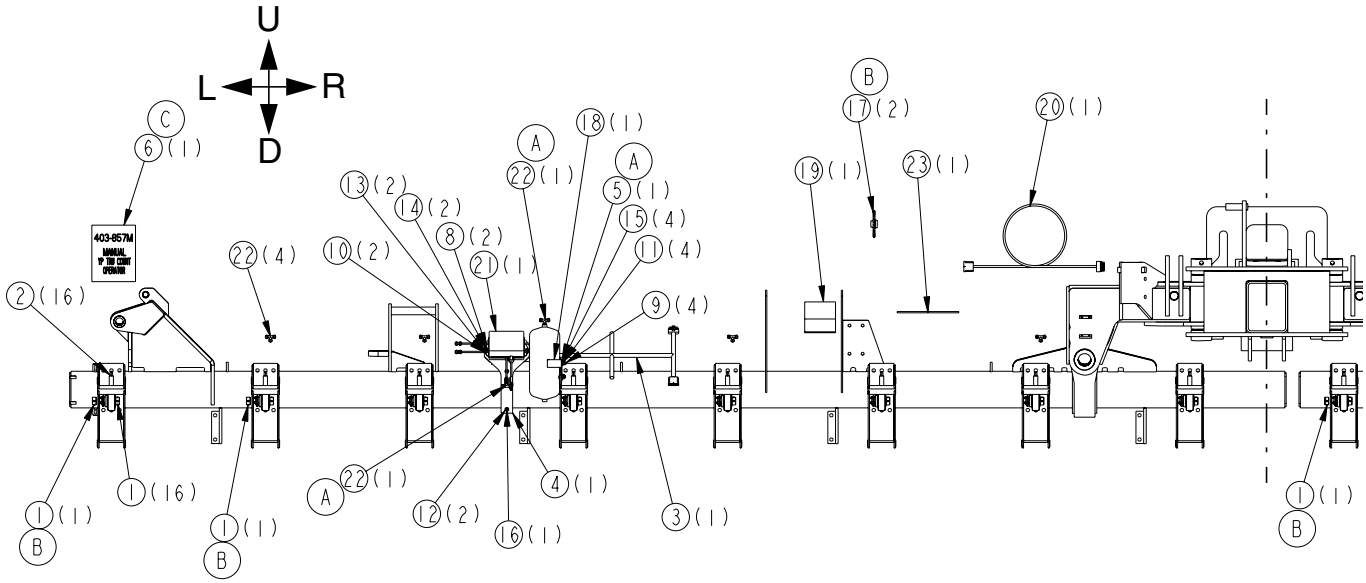


Figure 52
LH: Kit: 402-380A Clutch Layout: YP1625, 16 Row

402-286A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	106	402-273K	TRU-COUNT SINGLE ROW ASM
3	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
4	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
5	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
6	204	403-857M	MANUAL YP TRU COUNT OPERATOR
7	212	404-863K	TRU-COUNT COMP MOUNT ASM
8	222	802-005C	HHCS 1/4-20X1 GR5
9	224	802-017C	HHCS 3/8-16X1 GR5
10	237	803-006C	NUT HEX 1/4-20 PLT
11	238	803-014C	NUT HEX 3/8-16 PLT
12	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
13	243	804-007C	WASHER FLAT 1/4 SAE PLT
14	243	804-013C	WASHER FLAT 1/4 SAE PLT
15	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
16	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
17	262	823-329C	TRU-COUNT AIR TANK ASM
18	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
19	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
20	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
21	273	830-383C	CP 1/4 PUSH LOK POLY
22	274	830-405C	TE POLY 1/4 PUSH LOCK
23	275	990-109R	TUBE NYLON 1/4OD X 062WL

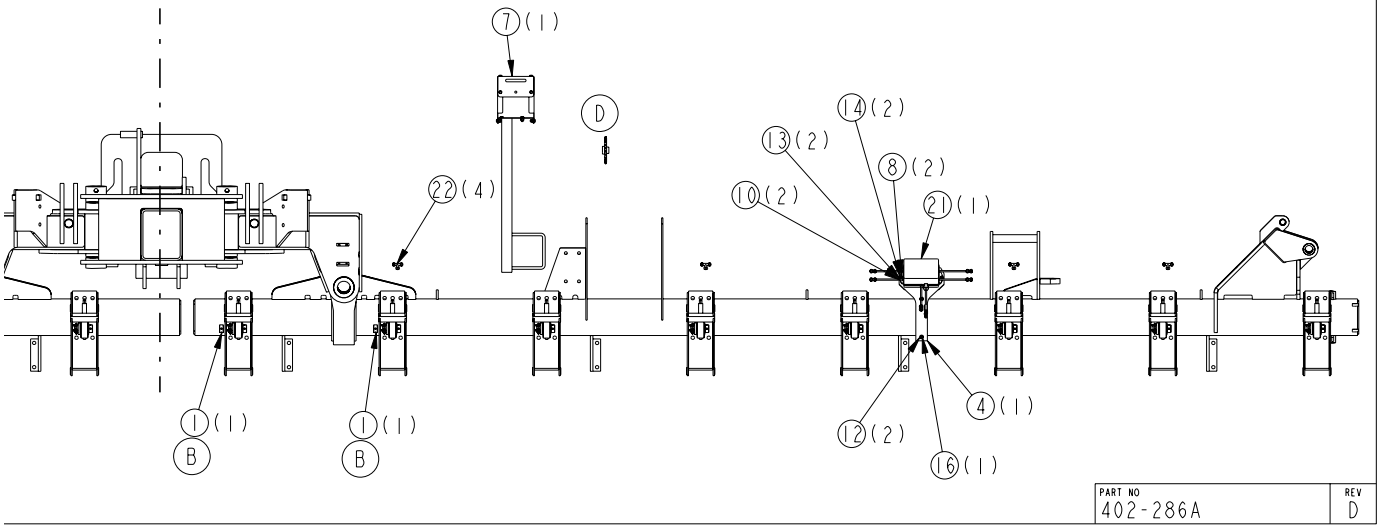


Figure 53
RH: Kit: 402-380A Clutch Layout: YP1625, 16 Row

402-286A

Kit: 402-381A Clutch Layout: YP1625, 32 Twin Row

Layout applies to Planter Models: YP1625-32TR, YP1625A-32TR

Layout also applies to Option 57 factory bundle: 402-287A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Section	Left Wing																Right Wing															
CFM Switch	1/Left																2/Right															
WSMB-TCOM	Left Wing WSMB-TCOM																															
TCOM Output	Out 1				Out 2				Out 3				Out 4				Out 5				Out 6				Out 7				Out 8			
Valve Block	Left Wing Valve Block																Right Wing Valve Block															
Valve, Port	V 1				V 2				V 3				V 4				V 1				V 2				V 3				V 4			
Tee	⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
Clutch Type	= 402-281K		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		= 402-281K		= 402-281K		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

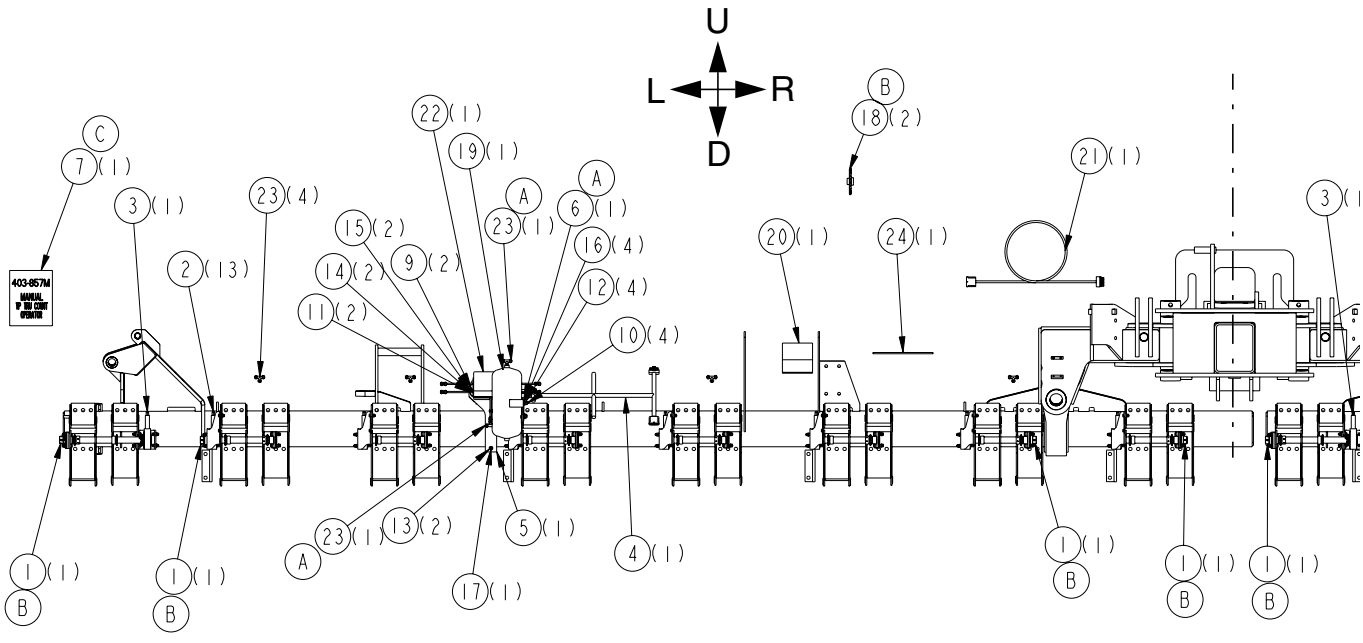
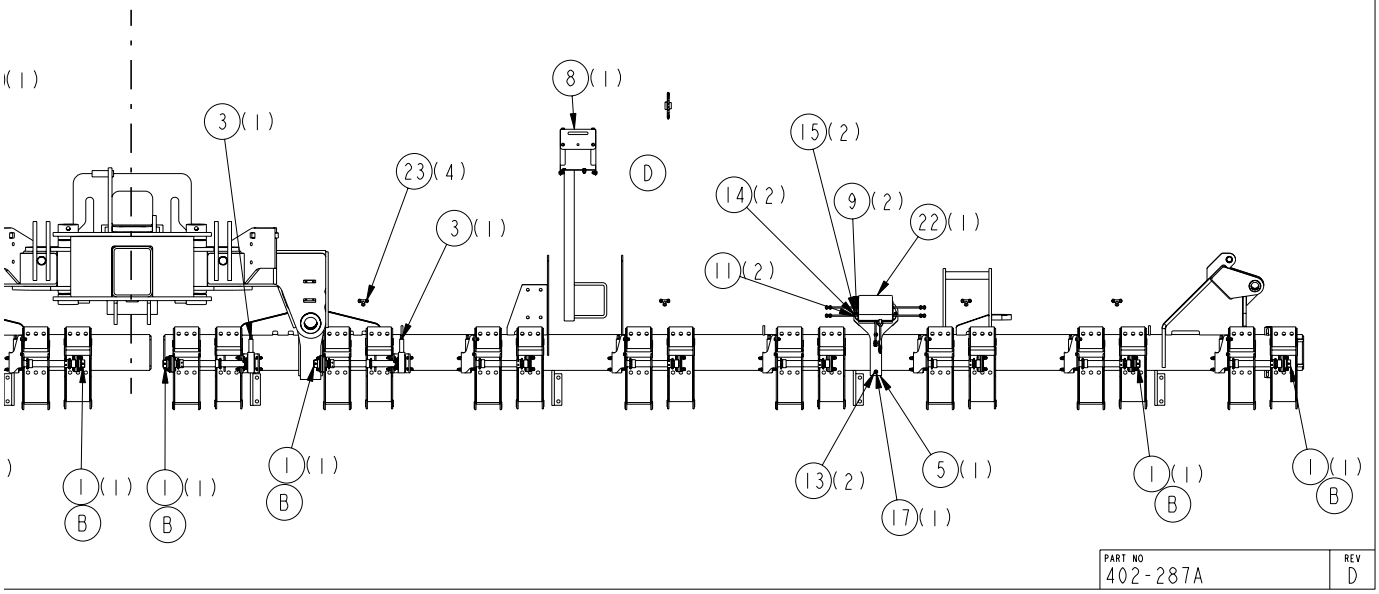


Figure 54
LH: Kit: 402-381A Clutch Layout: YP1625, 32 Twin Row

402-287A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	115	402-279K	TRU-COUNT TR ASM
3	118	402-281K	TRU-COUNT TR REVERSE ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
6	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
7	204	403-857M	MANUAL YP TRU COUNT OPERATOR
8	212	404-863K	TRU-COUNT COMP MOUNT ASM
9	222	802-005C	HHCS 1/4-20X1 GR5
10	224	802-017C	HHCS 3/8-16X1 GR5
11	237	803-006C	NUT HEX 1/4-20 PLT
12	238	803-014C	NUT HEX 3/8-16 PLT
13	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
14	242	804-006C	WASHER LOCK SPRING 1/4 PLT
15	243	804-007C	WASHER FLAT 1/4 SAE PLT
16	243	804-013C	WASHER FLAT 1/4 SAE PLT
17	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
18	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
19	262	823-329C	TRU-COUNT AIR TANK ASM
20	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
21	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
22	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
23	274	830-405C	TE POLY 1/4 PUSH LOCK
24	275	990-109R	TUBE NYLON 1/4OD X 062WL



402-287A

Figure 55
RH: Kit: 402-381A Clutch Layout: YP1625, 32 Twin Row

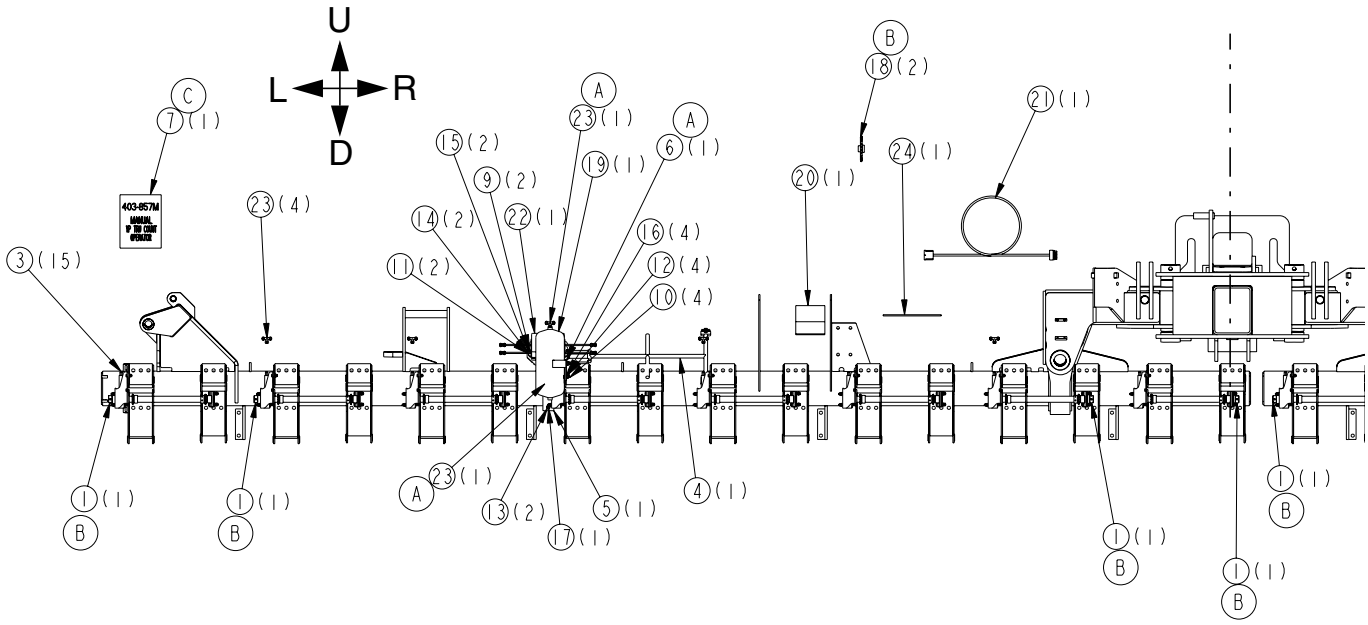
Kit: 402-383A Clutch Layout: YP1625, 31 Row

Layout applies to Planter Models: YP1625-3115, YP1625A-3115

Layout also applies to Option 57 factory bundle: 402-288A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Section	Left Wing																Right Wing														
CFM Switch	1/Left																2/Right														
WSMB-TCOM	Left Wing WSMB-TCOM																														
TCOM Output	Out 1				Out 2				Out 3				Out 4				Out 5				Out 6				Out 7				Out 8		
Valve Block	Left Wing Valve Block																Right Wing Valve Block														
Valve Port	V 1				V 2				V 3				V 4				V 1				V 2				V 3				V 4		
Tee	⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥		
Clutch No.	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16
Clutch Type	402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-275K II		402-273K
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31



402-288A

Figure 56
LH: Kit: 402-383A Clutch Layout: YP1625, 31 Row

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	106	402-273K	TRU-COUNT SINGLE ROW ASM
3	109	402-275K	TRU-COUNT 15 IN ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
6	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
7	204	403-857M	MANUAL YP TRU COUNT OPERATOR
8	212	404-863K	TRU-COUNT COMP MOUNT ASM
9	222	802-005C	HHCS 1/4-20X1 GR5
10	224	802-017C	HHCS 3/8-16X1 GR5
11	237	803-006C	NUT HEX 1/4-20 PLT
12	238	803-014C	NUT HEX 3/8-16 PLT
13	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
14	242	804-006C	WASHER LOCK SPRING 1/4 PLT
15	243	804-007C	WASHER FLAT 1/4 SAE PLT
16	243	804-013C	WASHER FLAT 1/4 SAE PLT
17	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
18	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
19	262	823-329C	TRU-COUNT AIR TANK ASM
20	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
21	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
22	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
23	274	830-405C	TE POLY 1/4 PUSH LOCK
24	275	990-109R	TUBE NYLON 1/4OD X 062WL

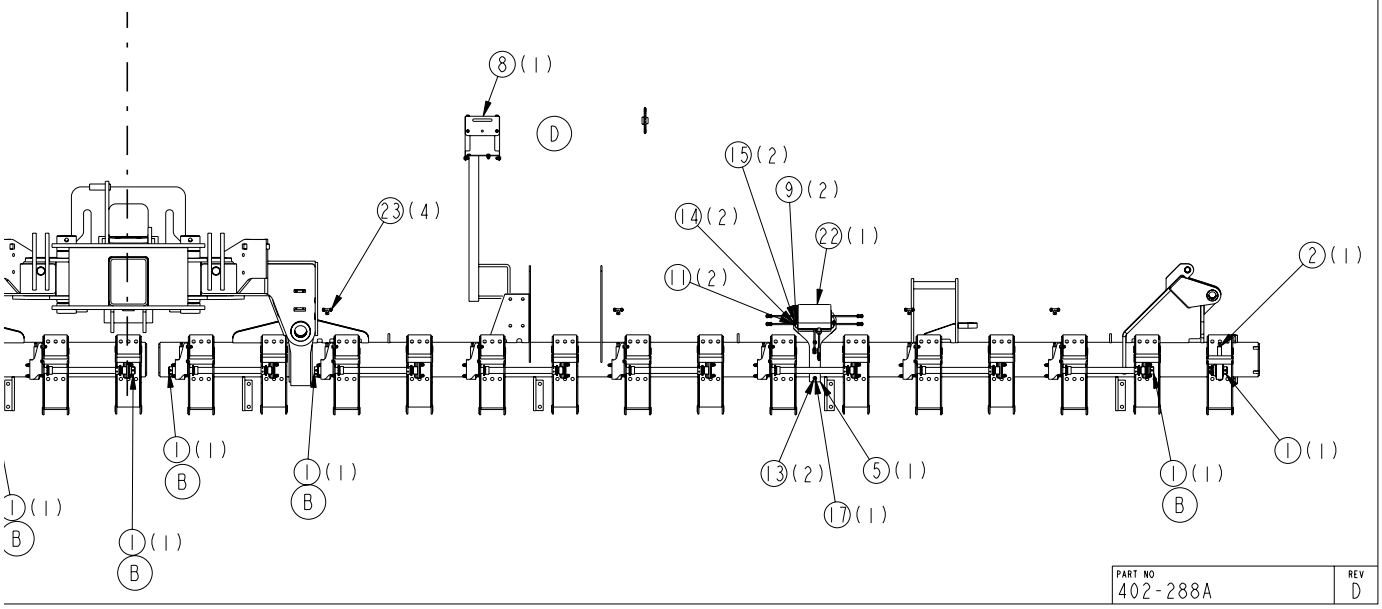


Figure 57
RH: Kit: 402-383A Clutch Layout: YP1625, 31 Row

402-288A

Kit: 402-384A Clutch Layout: YP4025/A, YP4425A, 24 Row

Layout applies to Planter Models: YP4025-2420, YP4025A-2420, YP4425A-2422

Layout also applies to Option 57 factory bundle: 402-289A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Section	Left Wing								Center								Right Wing							
CFM Switch	1/Left								2/Center								3/Right							
WSMB-TCOM	Left Wing WSMB-TCOM																Right Wing WSMB-TCOM[a]							
TCOM Output	Out 1		Out 2		Out 3		Out 4		Out 5		Out 6		Out 7		Out 8		Out 1 (# 9)		Out 2 (#10)		Out 3 (#11)		Out 4 (#12)	
Valve Block	Left Wing Valve Block								Center Valve Block								Right Wing Valve Block							
Valve, Port	V 1		V 2		V 3		V 4		V 1		V 2		V 3		V 4		V 1		V 2		V 3		V 4	
Tee	⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥	
Clutch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Clutch Type	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

a. WSMB-TCOM Right Wing Outputs 5 through 8 are unused.

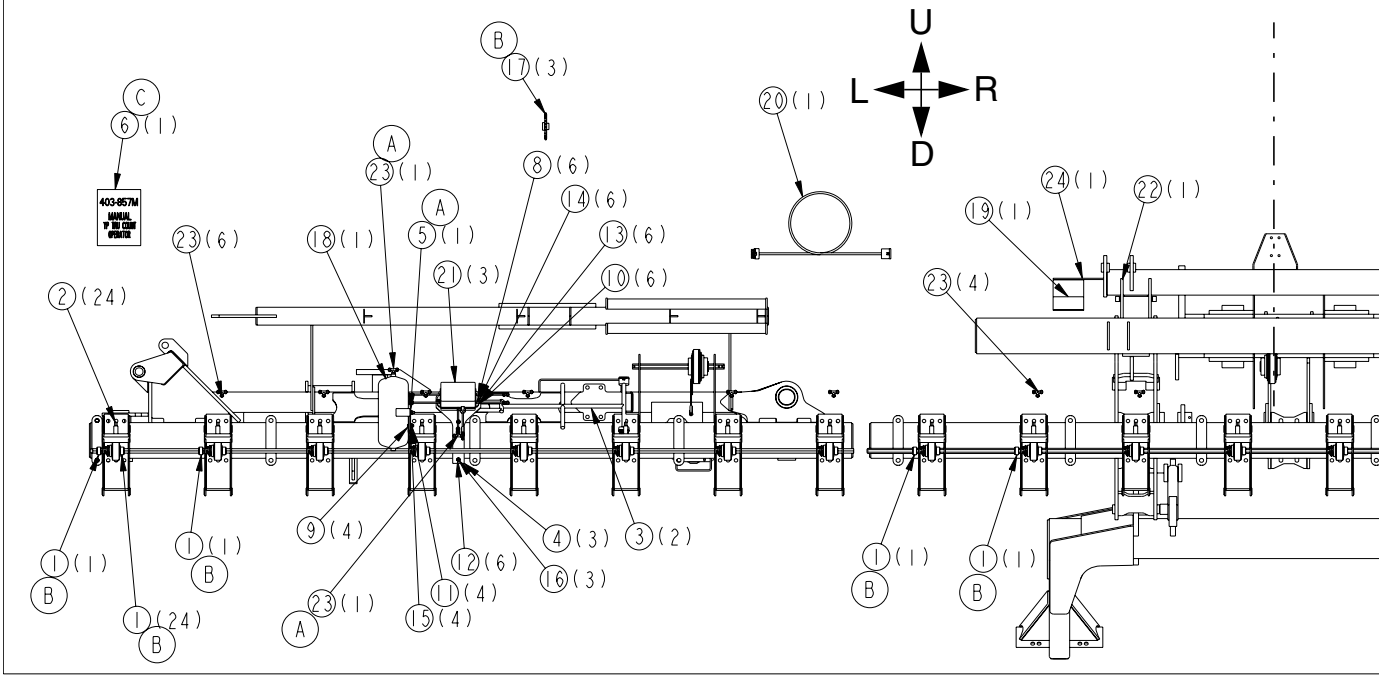


Figure 58
LH: Kit: 402-384A Clutch Layout: YP4025/A, YP4425A, 24 Row

402-289A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	106	402-273K	TRU-COUNT SINGLE ROW ASM
3	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
4	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
5	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
6	204	403-857M	MANUAL YP TRU COUNT OPERATOR
7	212	404-863K	TRU-COUNT COMP MOUNT ASM
8	221	802-004C	HHCS 1/4-20X3/4 GR5
9	224	802-017C	HHCS 3/8-16X1 GR5
10	237	803-006C	NUT HEX 1/4-20 PLT
11	238	803-014C	NUT HEX 3/8-16 PLT
12	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
13	242	804-006C	WASHER LOCK SPRING 1/4 PLT
14	243	804-007C	WASHER FLAT 1/4 SAE PLT
15	243	804-013C	WASHER FLAT 1/4 SAE PLT
16	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
17	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
18	262	823-329C	TRU-COUNT AIR TANK ASM
19	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
20	264	823-336C	EXTENSION HARNESS 25'6 PIN WP
21	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
22	273	830-383C	CP 1/4 PUSH LOK POLY
23	274	830-405C	TE POLY 1/4 PUSH LOCK
24	275	990-109R	TUBE NYLON 1/4OD X 062WL

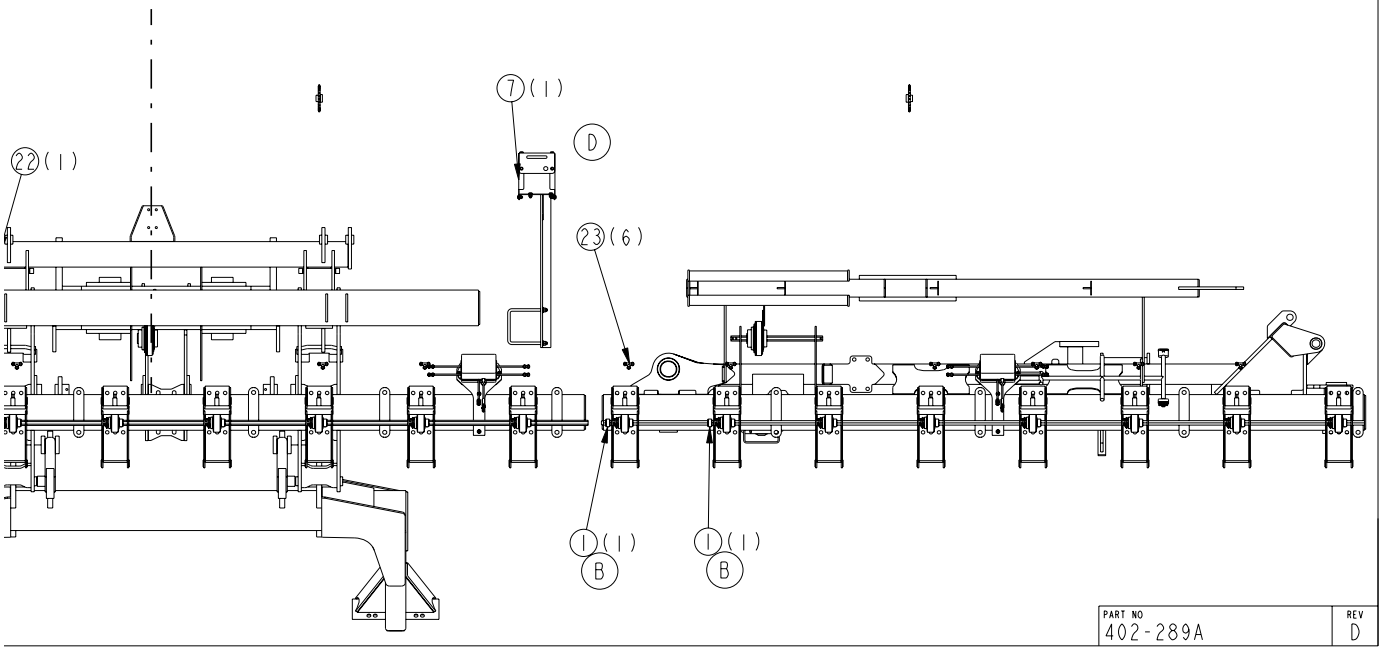


Figure 59
RH: Kit: 402-384A Clutch Layout: YP4025/A, YP4425A, 24 Row

402-289A

Kit: 402-385A Clutch Layout: YP2425/A, 48 Twin Row

Layout applies to Planter Models: YP2425-48TR, YP2425A-48TR

Layout also applies to Option 57 factory bundle: 402-290A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	30	41	42	43	44	45	46	47	48
Section	Left Wing																Center																Right Wing																	
CFM Switch	1/Left																2/Center																3/Right																	
WSMB-TCOM	Left Wing WSMB-TCOM																																Right Wing WSMB-TCOM[a]													
TCOM Output	Out 1				Out 2				Out 3				Out 4				Out 5				Out 6				Out 7				Out 8				Out 1 (# 9)				Out 2 (#10)				Out 3 (#11)				Out 4 (#12)			
Valve Block	Left Wing Valve Block																Center Valve Block																Right Wing Valve Block																	
Valve Port	V 1				V 2				V 3				V 4				V 1				V 2				V 3				V 4				V 1				V 2				V 3				V 4			
Tee	⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	30	41	42	43	44	45	46	47	48
Clutch Type	402-281K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-281K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K	402-279K
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	30	41	42	43	44	45	46	47	48

a. WSMB-TCOM Right Wing Outputs 5 through 8 are unused.

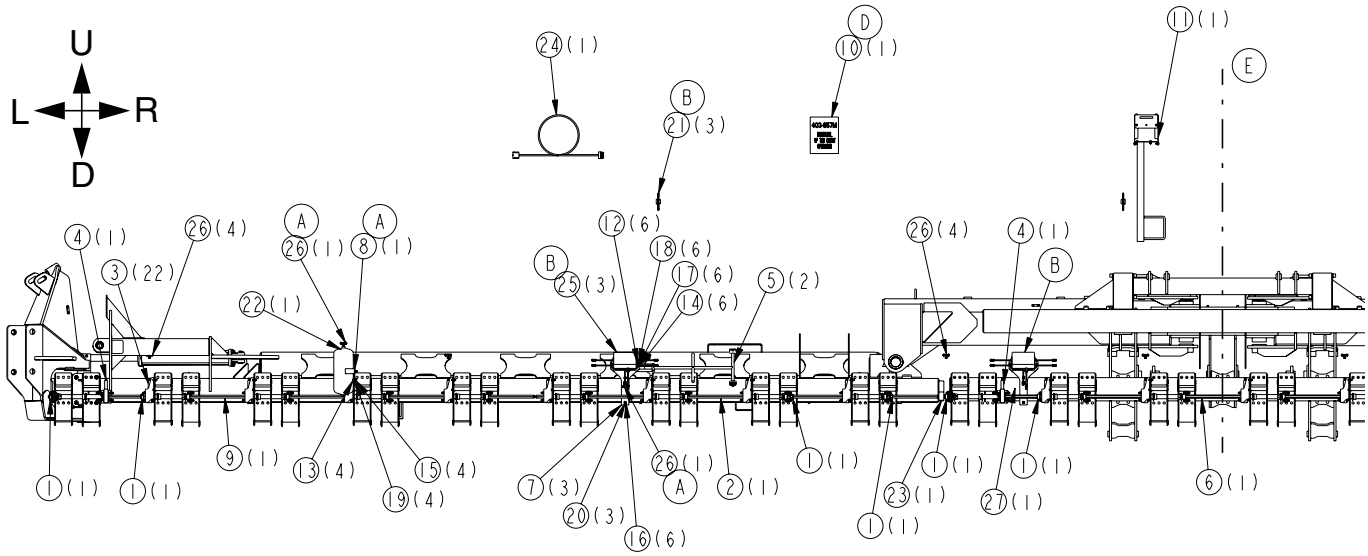


Figure 60
LH: Kit: 402-385A Clutch Layout: YP2425/A, 48 Twin Row

402-290A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	103	402-078D	UPPER WIDE SHAFT
3	115	402-279K	TRU-COUNT TR ASM
4	118	402-281K	TRU-COUNT TR REVERSE ASM
5	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
6	185	402-460D	SHAFT HEX 7/8 X 165 1/2
7	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
8	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
9	200	402-540D	SHAFT 7/8 HEX X 146.38
10	204	403-857M	MANUAL YP TRU COUNT OPERATOR
11	212	404-863K	TRU-COUNT COMP MOUNT ASM
12	222	802-005C	HHCS 1/4-20X1 GR5
13	224	802-017C	HHCS 3/8-16X1 GR5
14	237	803-006C	NUT HEX 1/4-20 PLT
15	238	803-014C	NUT HEX 3/8-16 PLT
16	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
17	242	804-006C	WASHER LOCK SPRING 1/4 PLT
18	243	804-007C	WASHER FLAT 1/4 SAE PLT
19	243	804-013C	WASHER FLAT 1/4 SAE PLT
20	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
21	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
22	262	823-329C	TRU-COUNT AIR TANK ASM
23	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
24	264	823-336C	EXTENSION HARNESS 25'6 PIN WP
25	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
26	274	830-405C	TE POLY 1/4 PUSH LOCK
27	275	990-109R	TUBE NYLON 1/4OD X 062WL

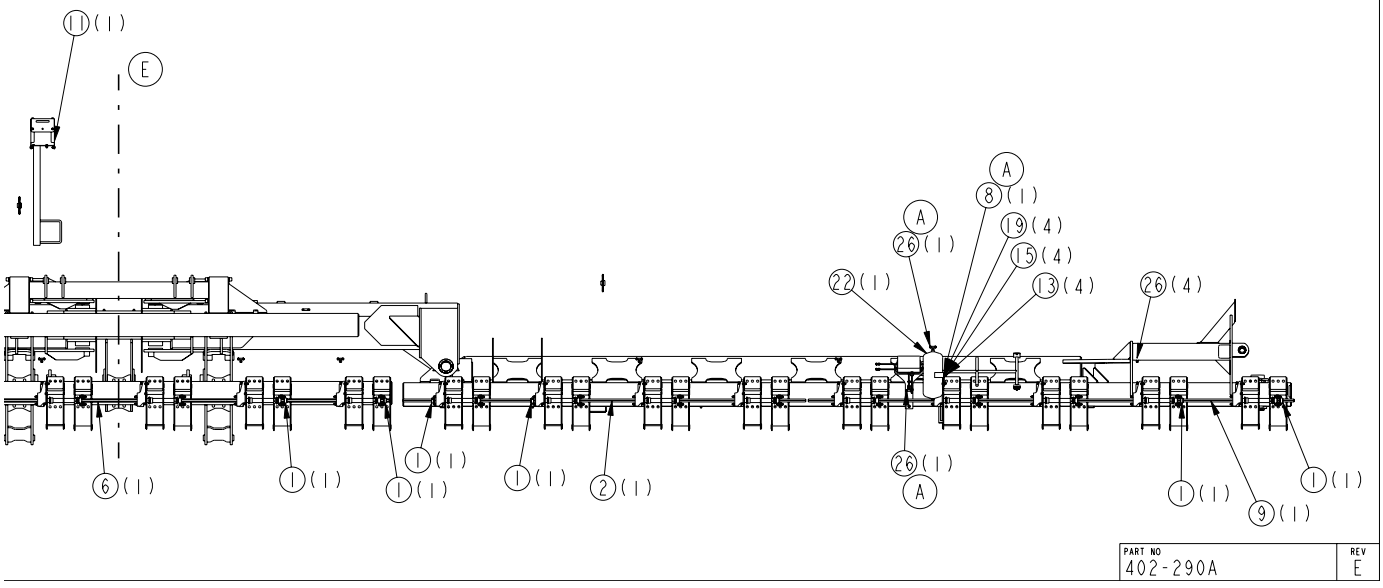


Figure 61
RH: Kit: 402-385A Clutch Layout: YP2425/A, 48 Twin Row

402-290A

Kit: 402-386A Clutch Layout: YP2425/A, 47 Row

Layout applies to Planter Models: YP2425-4715, YP2425A-4715

Layout also applies to Option 57 factory bundle: 402-291A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	30	41	42	43	44	45	46	47
Section	Left Wing																Center															Right Wing																		
CFM Switch	1/Left																2/Center															3/Right																		
WSMB-TCOM	Left Wing WSMB-TCOM																															Right Wing WSMB-TCOM																
TCOM Output	Out 1				Out 2				Out 3				Out 4				Out 5				Out 6				Out 7				Out 8				Out 1 (# 9)				Out 2 (#10)				Out 3 (#11)				Out 4 (#12)			
Valve Block	Left Wing Valve Block																Center Valve Block															Right Wing Valve Block																		
Valve Port	V 1				V 2				V 3				V 4				V 1				V 2				V 3				V 4				V 1				V 2				V 3				V 4			
Tee	⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15	16		17		18		19		20		21		22		23		24	
Clutch Type	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-275K	402-273K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K	402-276K
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	30	41	42	43	44	45	46	47

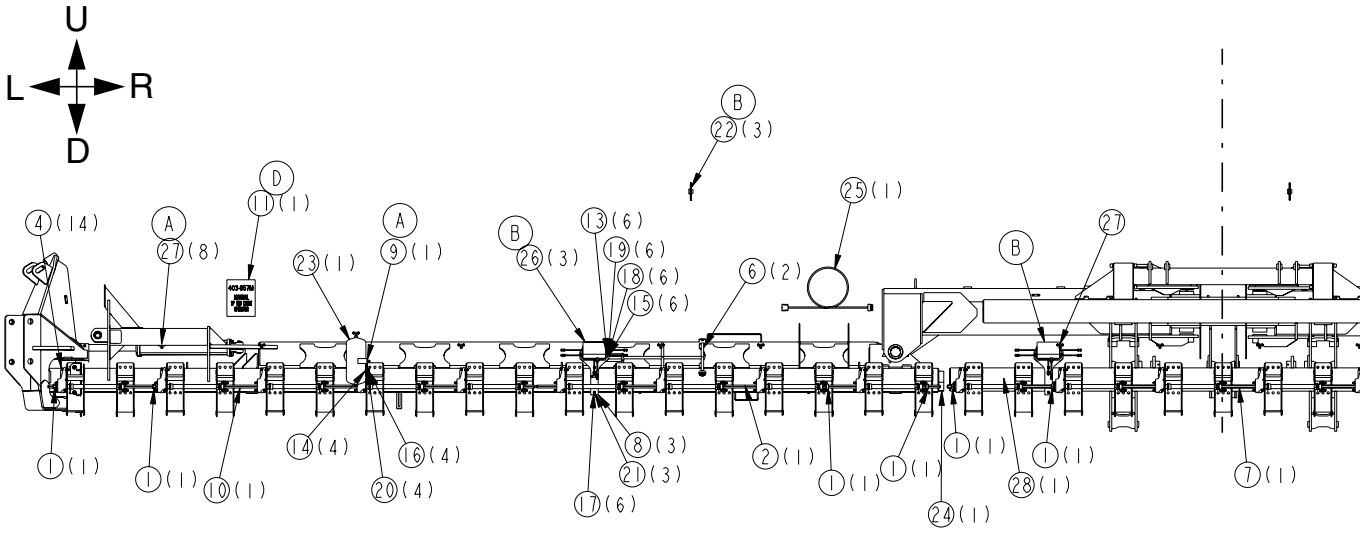
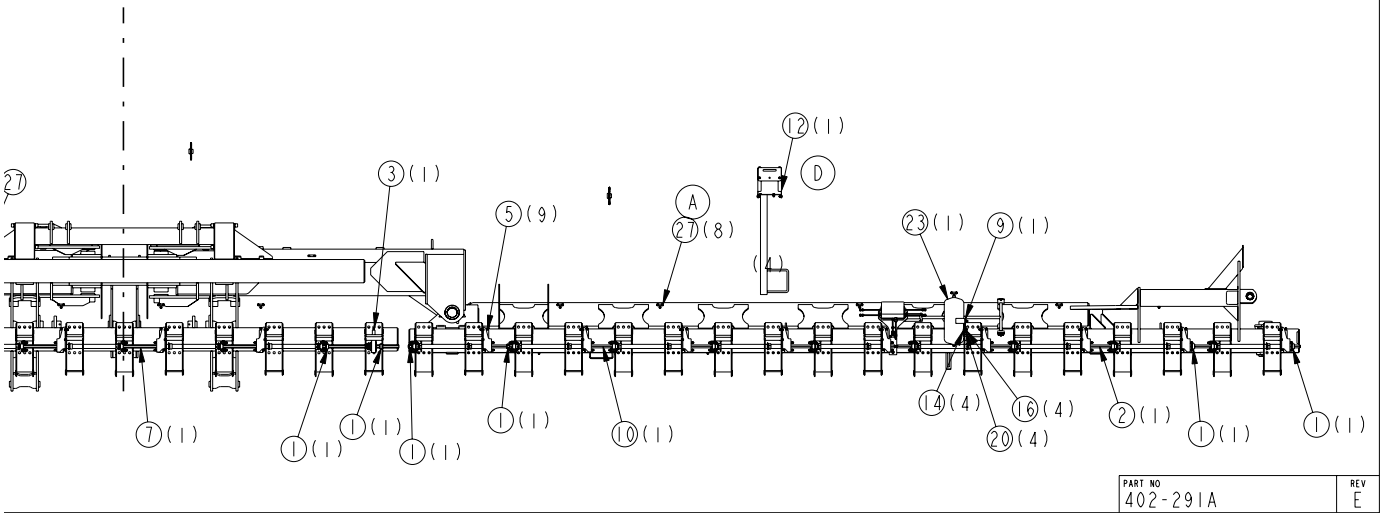


Figure 62
LH: Kit: 402-387A Clutch Layout: YP2425/A/F 24Row

402-291A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	103	402-078D	UPPER WIDE SHAFT
3	106	402-273K	TRU-COUNT SINGLE ROW ASM
4	109	402-275K	TRU-COUNT 15 IN ASM
5	111	402-276K	TRU-COUNT 15 IN LH ASM
6	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
7	185	402-460D	SHAFT HEX 7/8 X 165 1/2
8	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
9	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
10	200	402-540D	SHAFT 7/8 HEX X 146.38
11	204	403-857M	MANUAL YP TRU COUNT OPERATOR
12	212	404-863K	TRU-COUNT COMP MOUNT ASM
13	222	802-005C	HHCS 1/4-20X1 GR5
14	224	802-017C	HHCS 3/8-16X1 GR5
15	237	803-006C	NUT HEX 1/4-20 PLT
16	238	803-014C	NUT HEX 3/8-16 PLT
17	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
18	242	804-006C	WASHER LOCK SPRING 1/4 PLT
19	243	804-007C	WASHER FLAT 1/4 SAE PLT
20	243	804-013C	WASHER FLAT 1/4 SAE PLT
21	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
22	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
23	262	823-329C	TRU-COUNT AIR TANK ASM
24	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
25	264	823-336C	EXTENSION HARNESS 25'6 PIN WP
26	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
27	274	830-405C	TE POLY 1/4 PUSH LOCK
28	275	990-109R	TUBE NYLON 1/4OD X 062WL



402-291A

Figure 63
RH: Kit: 402-387A Clutch Layout: YP2425/A/F 24Row

Kit: 402-387A Clutch Layout: YP2425/A/F 24Row

Layout applies to Planter Models: YP2425-2430, YP2425A-2430, YP2425-2470, YP2425A-2470, YP2425F-2470

Layout also applies to Option 57 factory bundle: 402-292A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Section	Left Wing									Center							Right Wing							
CFM Switch	1/Left								2/Center								3/Right							
WSMB-TCOM	Left Wing WSMB-TCOM																Right Wing WSMB-TCOM[a]							
TCOM Output	Out 1		Out 2		Out 3		Out 4		Out 5		Out 6		Out 7		Out 8		Out 1 (# 9)		Out 2 (#10)		Out 3 (#11)		Out 4 (#12)	
Valve Block	Left Wing Valve Block								Center Valve Block								Right Wing Valve Block							
Valve, Port	V 1		V 2		V 3		V 4		V 1		V 2		V 3		V 4		V 1		V 2		V 3		V 4	
Tee	⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥		⊥	
Clutch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Clutch Type	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

a. WSMB-TCOM Right Wing Outputs 5 through 8 are unused.

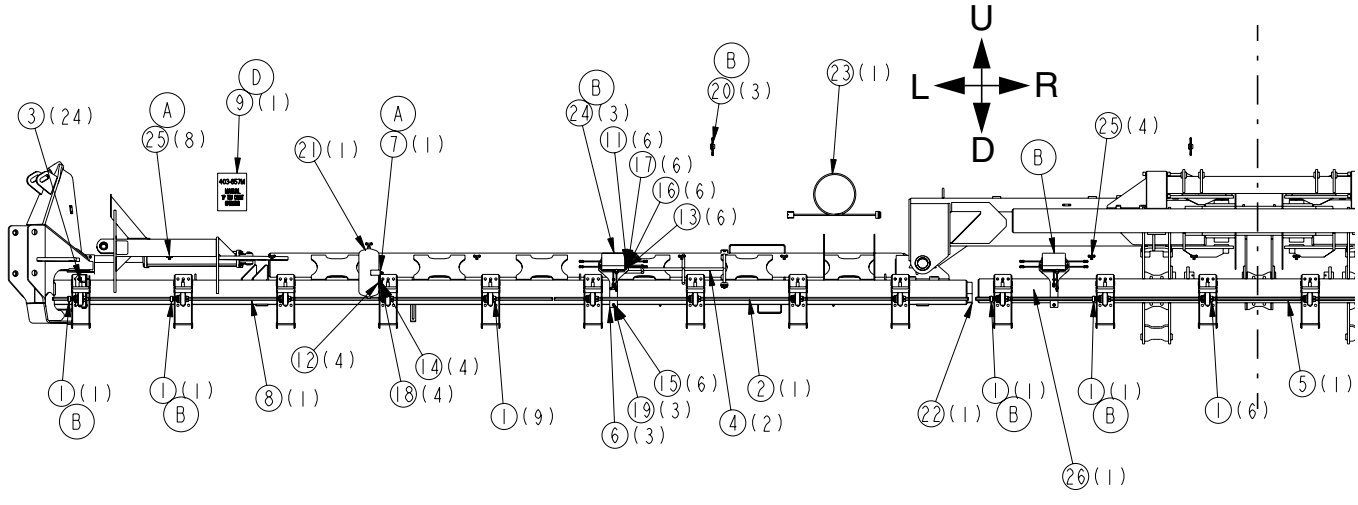
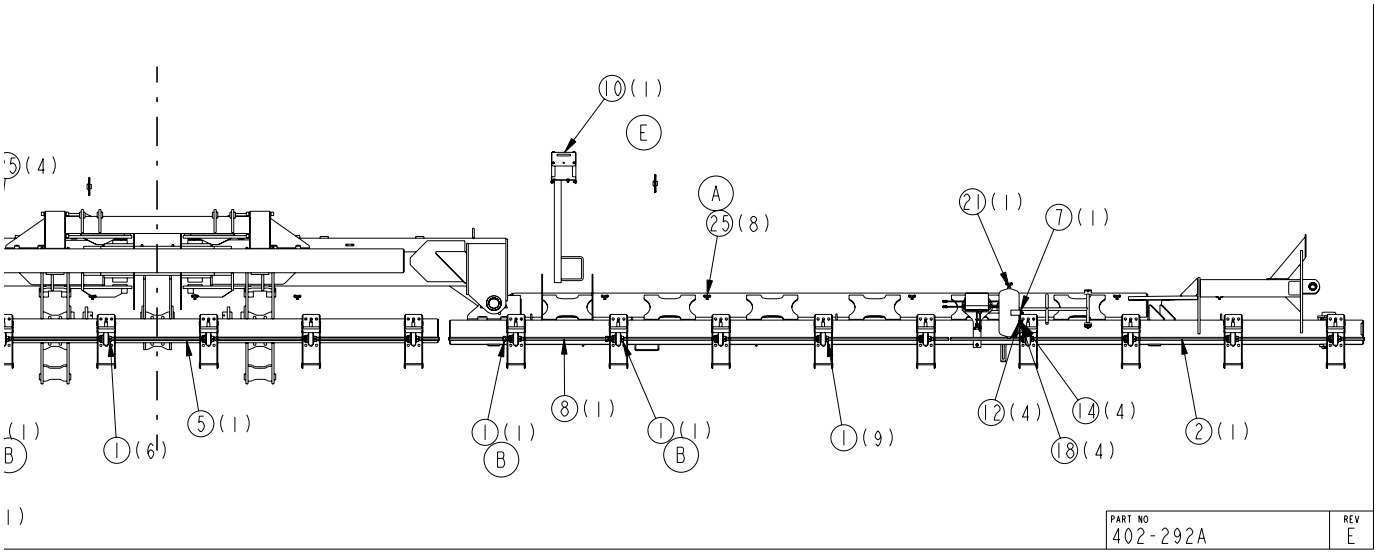


Figure 64
LH: Kit: 402-387A Clutch Layout: YP2425/A/F 24Row

402-292A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	103	402-078D	UPPER WIDE SHAFT
3	106	402-273K	TRU-COUNT SINGLE ROW ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	185	402-460D	SHAFT HEX 7/8 X 165 1/2
6	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
7	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
8	200	402-540D	SHAFT 7/8 HEX X 146.38
9	204	403-857M	MANUAL YP TRU COUNT OPERATOR
10	212	404-863K	TRU-COUNT COMP MOUNT ASM
11	222	802-005C	HHCS 1/4-20X1 GR5
12	224	802-017C	HHCS 3/8-16X1 GR5
13	237	803-006C	NUT HEX 1/4-20 PLT
14	238	803-014C	NUT HEX 3/8-16 PLT
15	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
16	242	804-006C	WASHER LOCK SPRING 1/4 PLT
17	243	804-007C	WASHER FLAT 1/4 SAE PLT
18	243	804-013C	WASHER FLAT 1/4 SAE PLT
19	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
20	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
21	262	823-329C	TRU-COUNT AIR TANK ASM
22	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
23	264	823-336C	EXTENSION HARNESS 25'6 PIN WP
24	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
25	274	830-405C	TE POLY 1/4 PUSH LOCK
26	275	990-109R	TUBE NYLON 1/4OD X 062WL



402-292A

Figure 65
RH: Kit: 402-387A Clutch Layout: YP2425/A/F 24Row

Kit: 402-388A Clutch Layout: YP2425/A 36 Row 20 Inch

Layout applies to Planter Models: YP2425-3620, YP2425A-3620

Layout also applies to Option 57 factory bundle: 402-293A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Section	Left Wing														Center										Right Wing											
CFM Switch	1/Left												2/Center												3/Right											
WSMB-TCOM	Left Wing WSMB-TCOM																								Right Wing WSMB-TCOM[a]											
TCOM Output	Out 1			Out 2			Out 3			Out 4			Out 5			Out 6			Out 7			Out 8			Out 1 (# 9)			Out 2 (#10)			Out 3 (#11)			Out 4 (#12)		
Valve Block	Left Wing Valve Block												Center Valve Block												Right Wing Valve Block											
Valve Port	V 1			V 2			V 3			V 4			V 1			V 2			V 3			V 4			V 1			V 2			V 3			V 4		
Tee	⊥			⊥			⊥			⊥			⊥			⊥			⊥			⊥			⊥			⊥			⊥			⊥		
Tee	|	⊥		|	⊥		|	⊥		|	⊥		|	⊥		|	⊥		⊥	|	⊥	|		⊥	|		⊥	|		⊥	|		⊥	|
Clutch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Clutch Type	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

a. WSMB-TCOM Right Wing Outputs 5 through 8 are unused.

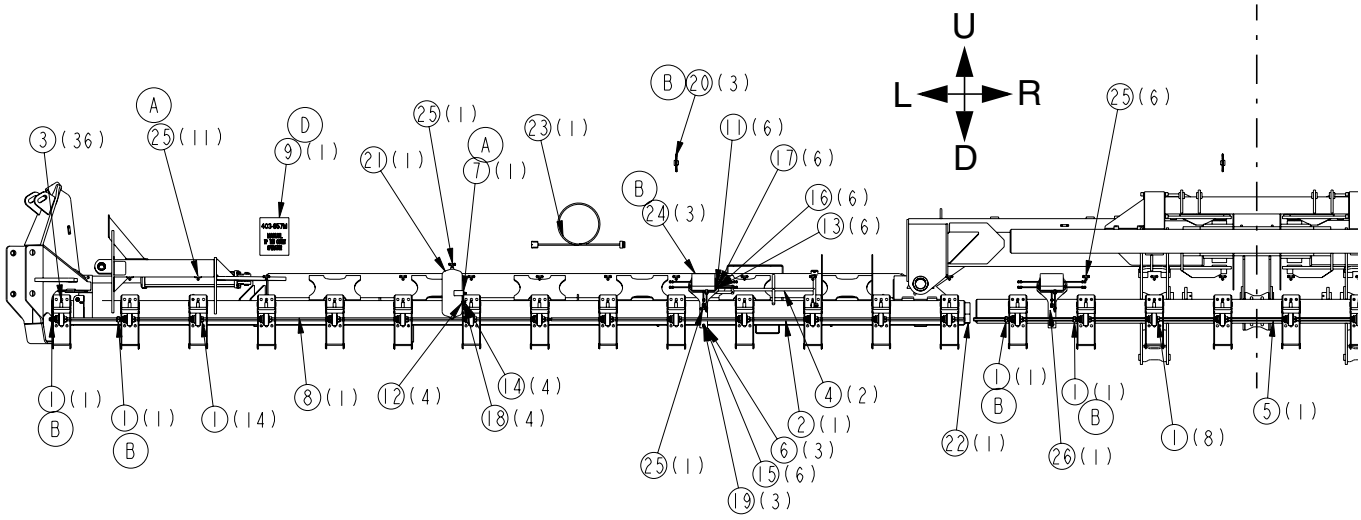
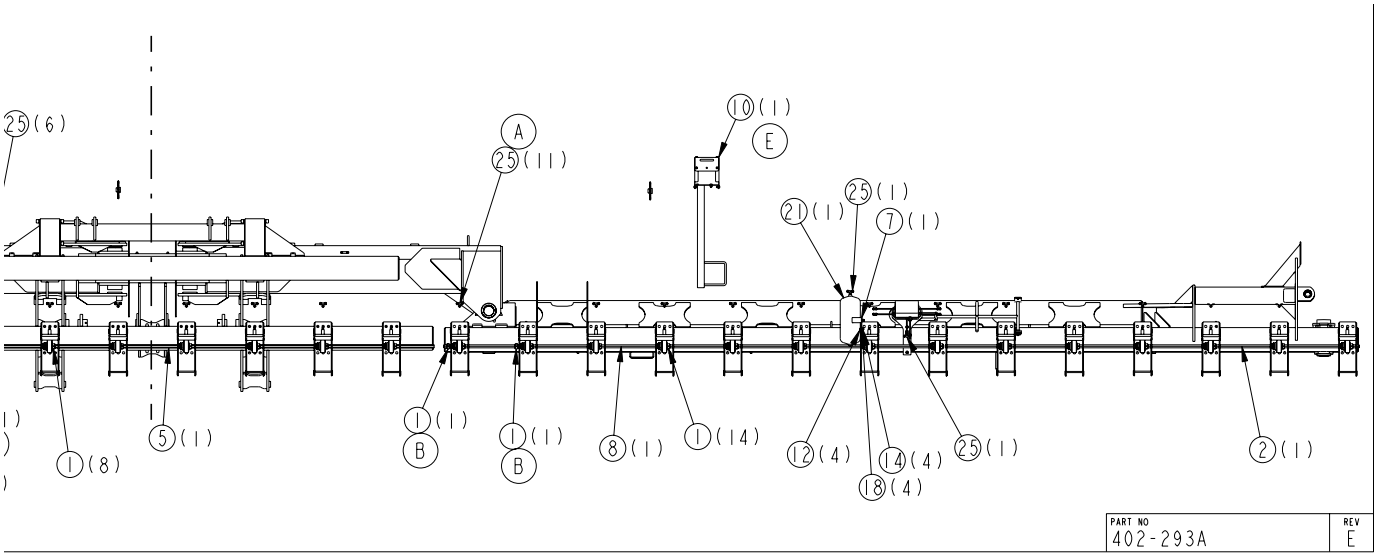


Figure 66
LH: Kit: 402-388A Clutch Layout: YP2425/A 36 Row 20 Inch

402-293A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	103	402-078D	UPPER WIDE SHAFT
3	106	402-273K	TRU-COUNT SINGLE ROW ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	185	402-460D	SHAFT HEX 7/8 X 165 1/2
6	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
7	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
8	200	402-540D	SHAFT 7/8 HEX X 146.38
9	204	403-857M	MANUAL YP TRU COUNT OPERATOR
10	212	404-863K	TRU-COUNT COMP MOUNT ASM
11	222	802-005C	HHCS 1/4-20X1 GR5
12	224	802-017C	HHCS 3/8-16X1 GR5
13	237	803-006C	NUT HEX 1/4-20 PLT
14	238	803-014C	NUT HEX 3/8-16 PLT
15	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
16	242	804-006C	WASHER LOCK SPRING 1/4 PLT
17	243	804-007C	WASHER FLAT 1/4 SAE PLT
18	243	804-013C	WASHER FLAT 1/4 SAE PLT
19	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
20	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
21	262	823-329C	TRU-COUNT AIR TANK ASM
22	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
23	264	823-336C	EXTENSION HARNESS 25'6 PIN WP
24	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
25	274	830-405C	TE POLY 1/4 PUSH LOCK
26	275	990-109R	TUBE NYLON 1/4OD X 062WL



402-293A

Figure 67
RH: Kit: 402-388A Clutch Layout: YP2425/A 36 Row 20 Inch

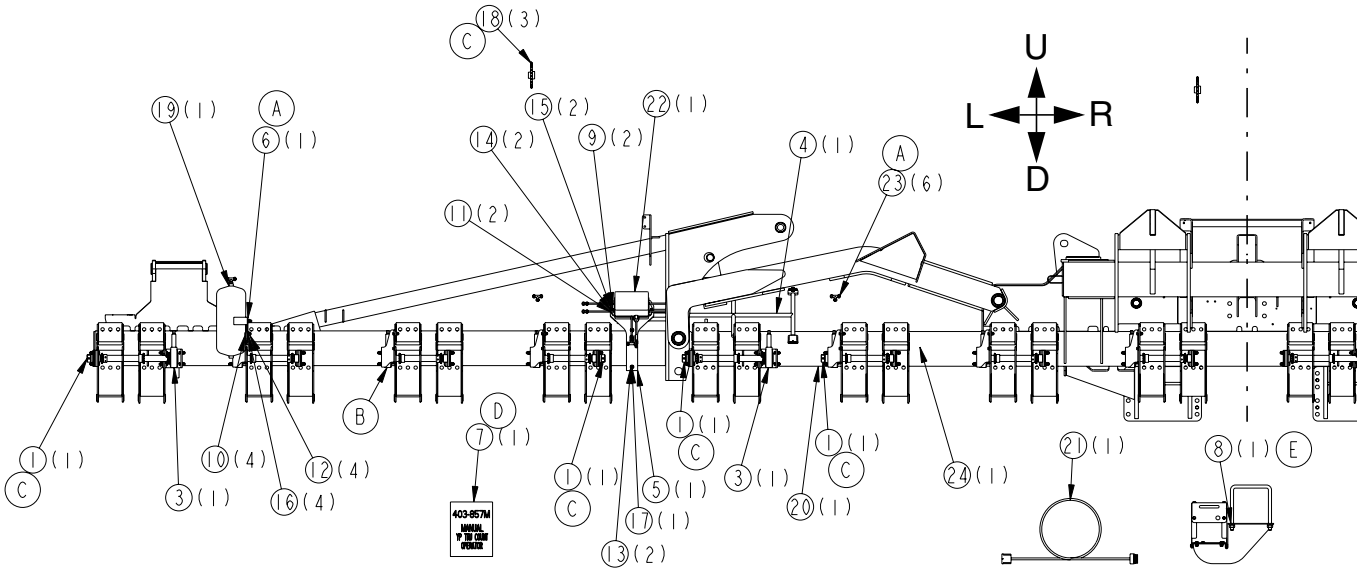
Kit: 402-389A Clutch Layout: 3PYP/A 32 Twin Row 30 Inch

Layout applies to Planter Models: 3PYP-32TR30, 3PYPA-32TR30

Layout also applies to Option 57 factory bundle: 402-294A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Section	Left Wing								Center																Right Wing							
CFM Switch	(Depends on Drive Type: See Below)																															
Ground Drive	1/Left								2/Center																3/Right							
Hydraulic Drv.	1/Left																2/Right															
WSMB-TCOM	Left Wing WSMB-TCOM																															
TCOM Output	Out 1				Out 2				Out 3				Out 4				Out 5				Out 6				Out 7				Out 8			
Valve Block	Left Wing Valve Block																Right Wing Valve Block															
Valve, Port	V 1				V 2				V 3				V 4				V 1				V 2				V 3				V 4			
Tee	⊥				⊥				⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
Clutch Type	═ 402-281K		402-279K ═		402-279K ═		402-279K ═		═ 402-281K		402-279K ═		402-279K ═		402-279K ═		═ 402-281K		═ 402-281K		402-279K ═		402-279K ═		402-279K ═		402-279K ═		═ 402-281K		402-279K ═	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32



402-294A

Figure 68
LH: Kit: 402-389A Clutch Layout: 3PYP/A 32 Twin Row 30 Inch

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	115	402-279K	TRU-COUNT TR ASM
3	118	402-281K	TRU-COUNT TR REVERSE ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
6	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
7	204	403-857M	MANUAL YP TRU COUNT OPERATOR
8	213	404-867K	3PYP TC COMPRESSOR MOUNT ASM
9	222	802-005C	HHCS 1/4-20X1 GR5
10	224	802-017C	HHCS 3/8-16X1 GR5
11	237	803-006C	NUT HEX 1/4-20 PLT
12	238	803-014C	NUT HEX 3/8-16 PLT
13	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
14	242	804-006C	WASHER LOCK SPRING 1/4 PLT
15	243	804-007C	WASHER FLAT 1/4 SAE PLT
16	243	804-013C	WASHER FLAT 1/4 SAE PLT
17	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
18	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
19	262	823-329C	TRU-COUNT AIR TANK ASM
20	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
21	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
22	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
23	274	830-405C	TE POLY 1/4 PUSH LOCK
24	275	990-109R	TUBE NYLON 1/4OD X 062WL

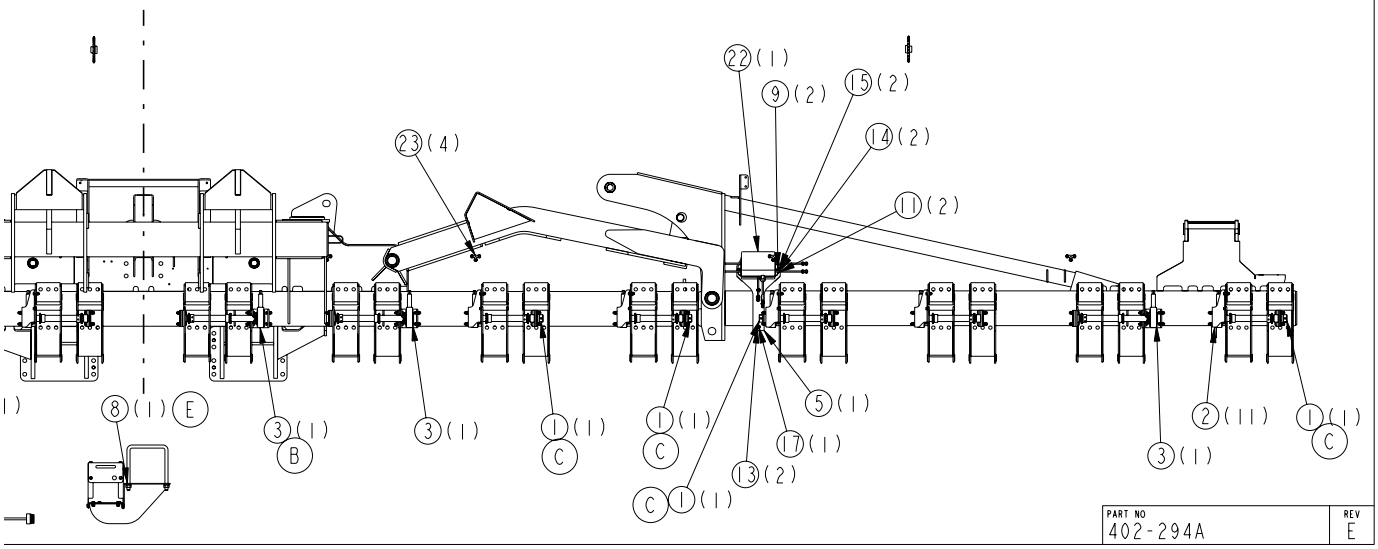


Figure 69
RH: Kit: 402-389A Clutch Layout: 3PYP/A 32 Twin Row 30 Inch

402-294A

Kit: 402-390A Clutch Layout: 3PYP/A 24 Twin Row 36 Inch

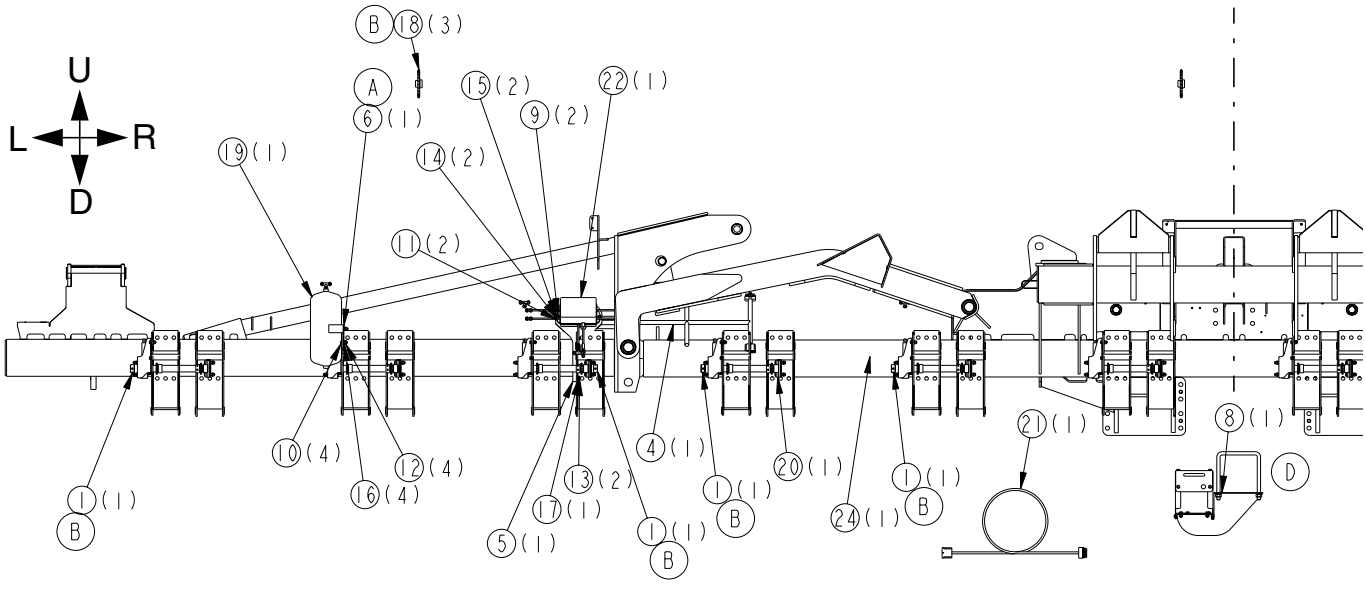
Layout applies to Planter Models: 3PYP-24TR36, 3PYPA-24TR36

Layout also applies to Option 57 factory bundle: 402-295A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Section	Left Wing						Center												Right Wing					
CFM Switch	(Depends on Drive Type: See Below)																							
Ground Drive	1/Left								2/Center								3/Right							
Hydraulic Drv.	1/Left												2/Right											
WSMB-TCOM	Left Wing WSMB-TCOM																							
TCOM Output[a]	Out 1				Out 2				Out 3				Out 5				Out 6				Out 7			
Valve Block	Left Wing Valve Block												Right Wing Valve Block											
Valve, Port[b]	V 1				V 2				V 3				V 1				V 2				V 3			
Tee	⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8		9		10		11		12	
Clutch Type	402-279K ═		402-279K ═		402-279K ═		402-279K ═		402-279K ═		402-279K ═		402-279K ═		402-279K ═		402-279K ═		═ 402-281K		402-279K ═		402-279K ═	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 is unused on each block.



402-295A

Figure 70
LH: Kit: 402-390A Clutch Layout: 3PYP/A 24 Twin Row 36 Inch

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	115	402-279K	TRU-COUNT TR ASM
3	118	402-281K	TRU-COUNT TR REVERSE ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
6	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
7	204	403-857M	MANUAL YP TRU COUNT OPERATOR
8	213	404-867K	3PYP TC COMPRESSOR MOUNT ASM
9	222	802-005C	HHCS 1/4-20X1 GR5
10	224	802-017C	HHCS 3/8-16X1 GR5
11	237	803-006C	NUT HEX 1/4-20 PLT
12	238	803-014C	NUT HEX 3/8-16 PLT
13	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
14	242	804-006C	WASHER LOCK SPRING 1/4 PLT
15	243	804-007C	WASHER FLAT 1/4 SAE PLT
16	243	804-013C	WASHER FLAT 1/4 SAE PLT
17	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
18	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
19	262	823-329C	TRU-COUNT AIR TANK ASM
20	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
21	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
22	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
23	274	830-405C	TE POLY 1/4 PUSH LOCK
24	275	990-109R	TUBE NYLON 1/4OD X 062WL

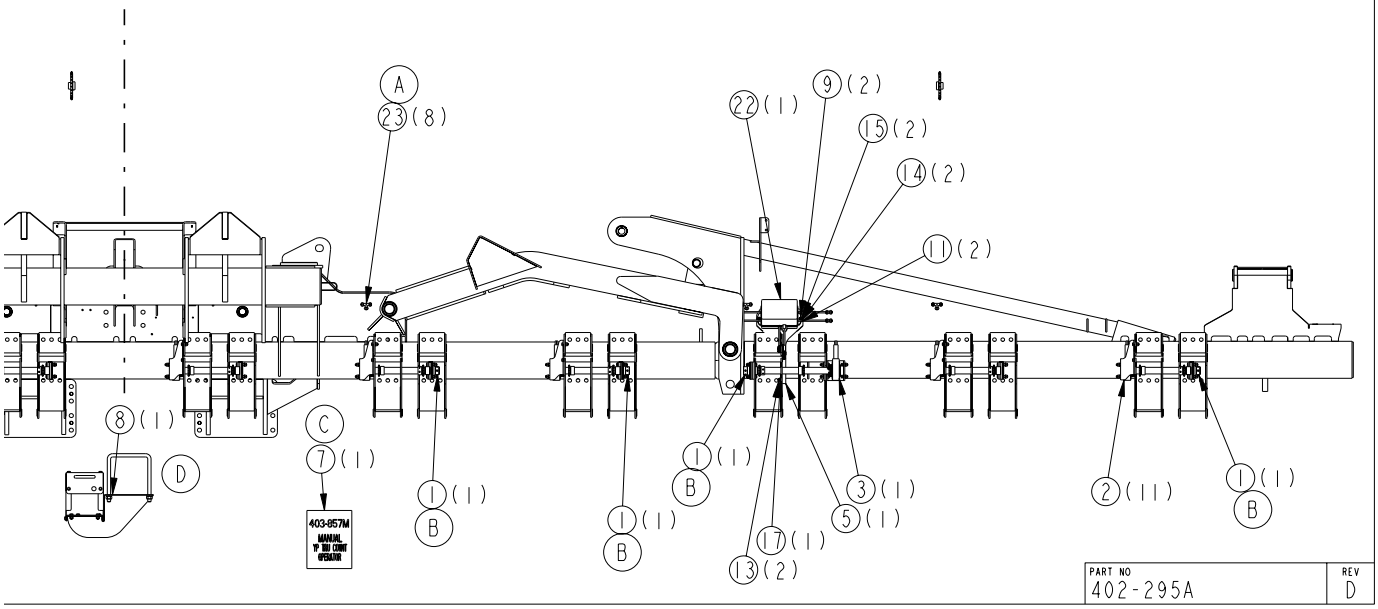


Figure 71
RH: Kit: 402-390A Clutch Layout: 3PYP/A 24 Twin Row 36 Inch

402-295A

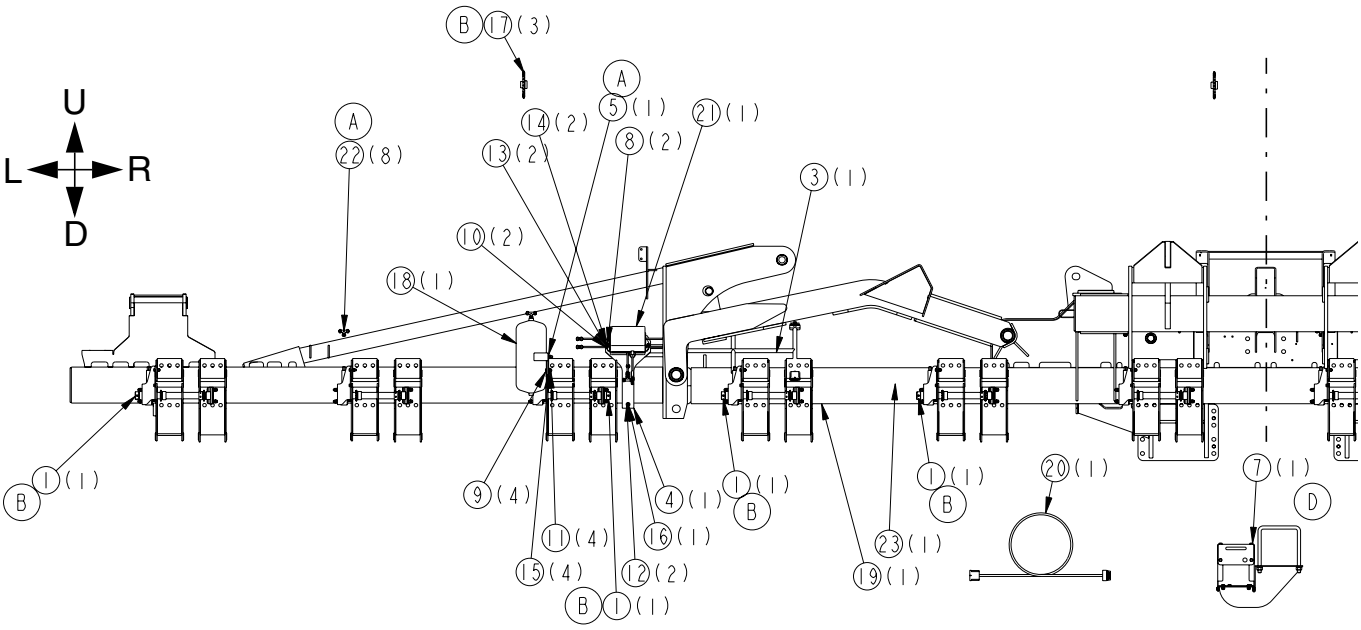
Kit: 402-391A Clutch Layout: 3PYP/A 24 Twin Row 38 Inch

Layout applies to Planter Models: 3PYP-24TR38, 3PYPA-24TR38
Layout also applies to Option 57 factory bundle: 402-296A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Section	Left Wing						Center												Right Wing					
CFM Switch	(Depends on Drive Type: See Below)																							
Ground Drive	1/Left								2/Center								3/Right							
Hydraulic Drv.	1/Left												2/Right											
WSMB-TCOM	Left Wing WSMB-TCOM																							
TCOM Output[a]	Out 1				Out 2				Out 3				Out 5				Out 6				Out 7			
Valve Block	Left Wing Valve Block												Right Wing Valve Block											
Valve, Port[b]	V 1				V 2				V 3				V 1				V 2				V 3			
Tee	⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8		9		10		11		12	
Clutch Type	402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 is unused on each block.



402-296A

Figure 72
LH: Kit: 402-391A Clutch Layout: 3PYP/A 24 Twin Row 38 Inch

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	115	402-279K	TRU-COUNT TR ASM
3	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
4	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
5	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
6	204	403-857M	MANUAL YP TRU COUNT OPERATOR
7	213	404-867K	3PYP TC COMPRESSOR MOUNT ASM
8	222	802-005C	HHCS 1/4-20X1 GR5
9	224	802-017C	HHCS 3/8-16X1 GR5
10	237	803-006C	NUT HEX 1/4-20 PLT
11	238	803-014C	NUT HEX 3/8-16 PLT
12	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
13	242	804-006C	WASHER LOCK SPRING 1/4 PLT
14	243	804-007C	WASHER FLAT 1/4 SAE PLT
15	243	804-013C	WASHER FLAT 1/4 SAE PLT
16	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
17	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
18	262	823-329C	TRU-COUNT AIR TANK ASM
19	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
20	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
21	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
22	274	830-405C	TE POLY 1/4 PUSH LOCK
23	275	990-109R	TUBE NYLON 1/4OD X 062WL

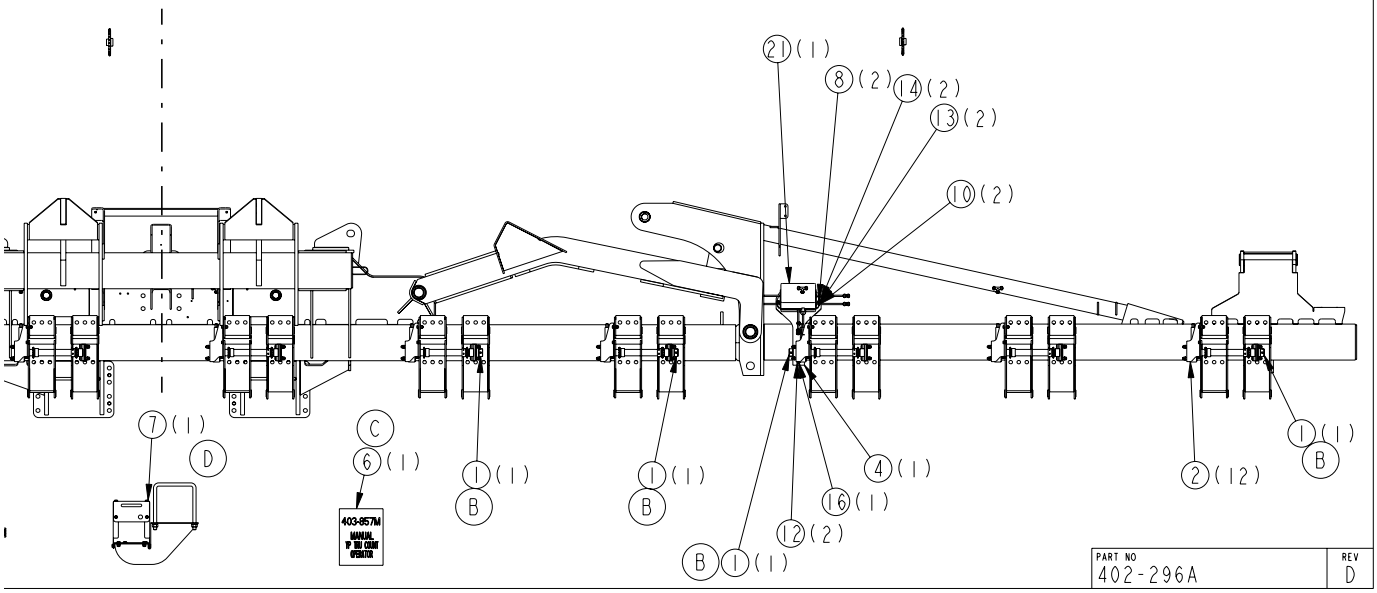


Figure 73
RH: Kit: 402-391A Clutch Layout: 3PYP/A 24 Twin Row 38 Inch

402-296A

Kit: 402-392A Clutch Layout: 3PYP/A 24 Twin Row 40 Inch

Layout applies to Planter Models: 3PYP-24TR40, 3PYPA-24TR40
Layout also applies to Option 57 factory bundle: 402-297A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Section	Left Wing						Center												Right Wing					
CFM Switch	(Depends on Drive Type: See Below)																							
Ground Drive	1/Left								2/Center								3/Right							
Hydraulic Drv.	1/Left												2/Right											
WSMB-TCOM	Left Wing WSMB-TCOM																							
TCOM Output[a]	Out 1				Out 2				Out 3				Out 5				Out 6				Out 7			
Valve Block	Left Wing Valve Block												Right Wing Valve Block											
Valve, Port[b]	V 1				V 2				V 3				V 1				V 2				V 3			
Tee	⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8		9		10		11		12	
Clutch Type	402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		= 402-281K		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 is unused on each block.

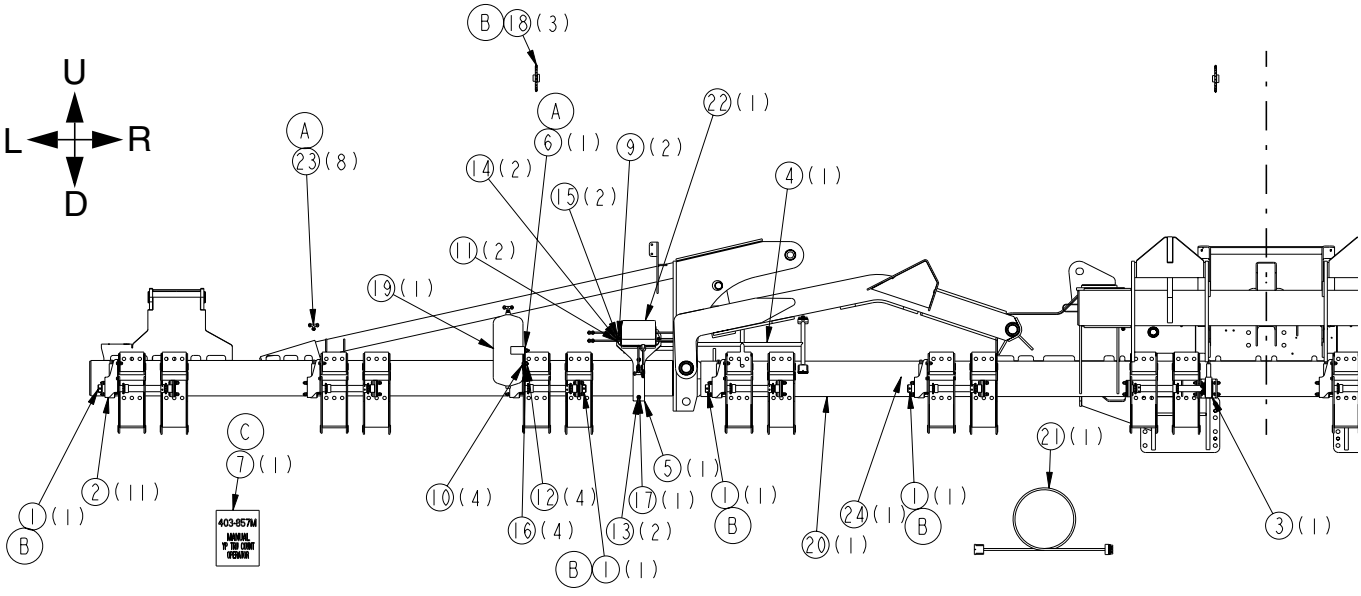
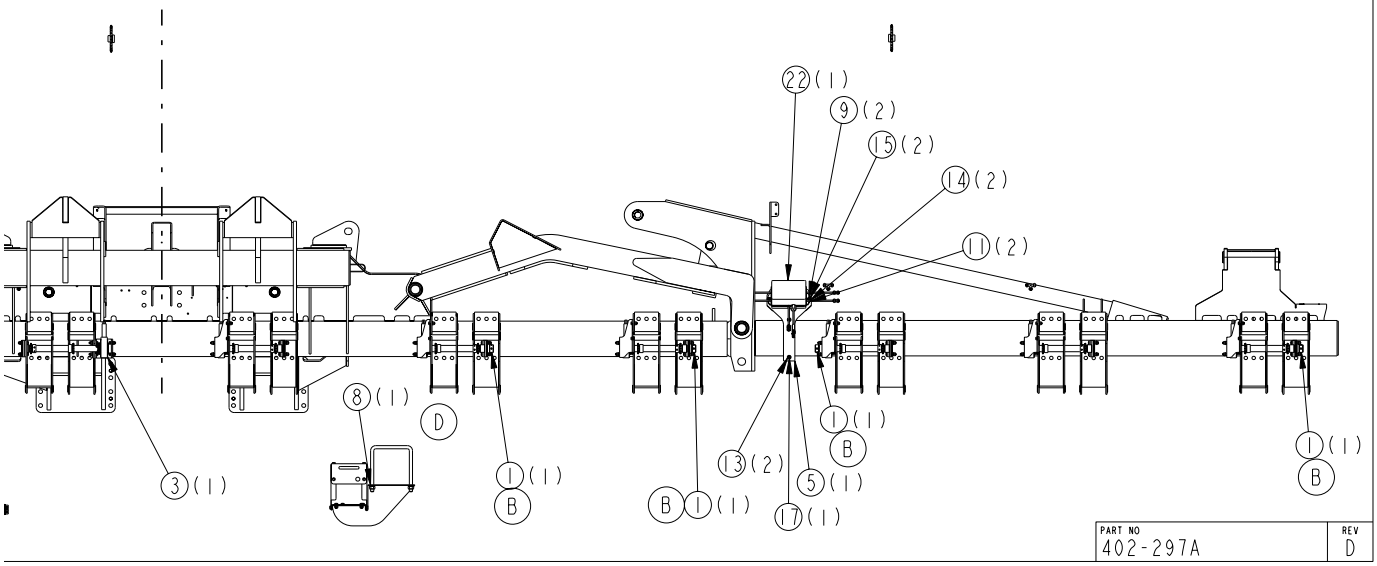


Figure 74
LH: Kit: 402-392A Clutch Layout: 3PYP/A 24 Twin Row 40 Inch

402-297A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	115	402-279K	TRU-COUNT TR ASM
3	118	402-281K	TRU-COUNT TR REVERSE ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
6	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
7	204	403-857M	MANUAL YP TRU COUNT OPERATOR
8	213	404-867K	3PYP TC COMPRESSOR MOUNT ASM
9	222	802-005C	HHCS 1/4-20X1 GR5
10	224	802-017C	HHCS 3/8-16X1 GR5
11	237	803-006C	NUT HEX 1/4-20 PLT
12	238	803-014C	NUT HEX 3/8-16 PLT
13	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
14	242	804-006C	WASHER LOCK SPRING 1/4 PLT
15	243	804-007C	WASHER FLAT 1/4 SAE PLT
16	243	804-013C	WASHER FLAT 1/4 SAE PLT
17	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
18	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
19	262	823-329C	TRU-COUNT AIR TANK ASM
20	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
21	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
22	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
23	274	830-405C	TE POLY 1/4 PUSH LOCK
24	275	990-109R	TUBE NYLON 1/4OD X 062WL



402-297A

Figure 75
RH: Kit: 402-392A Clutch Layout: 3PYP/A 24 Twin Row 40 Inch

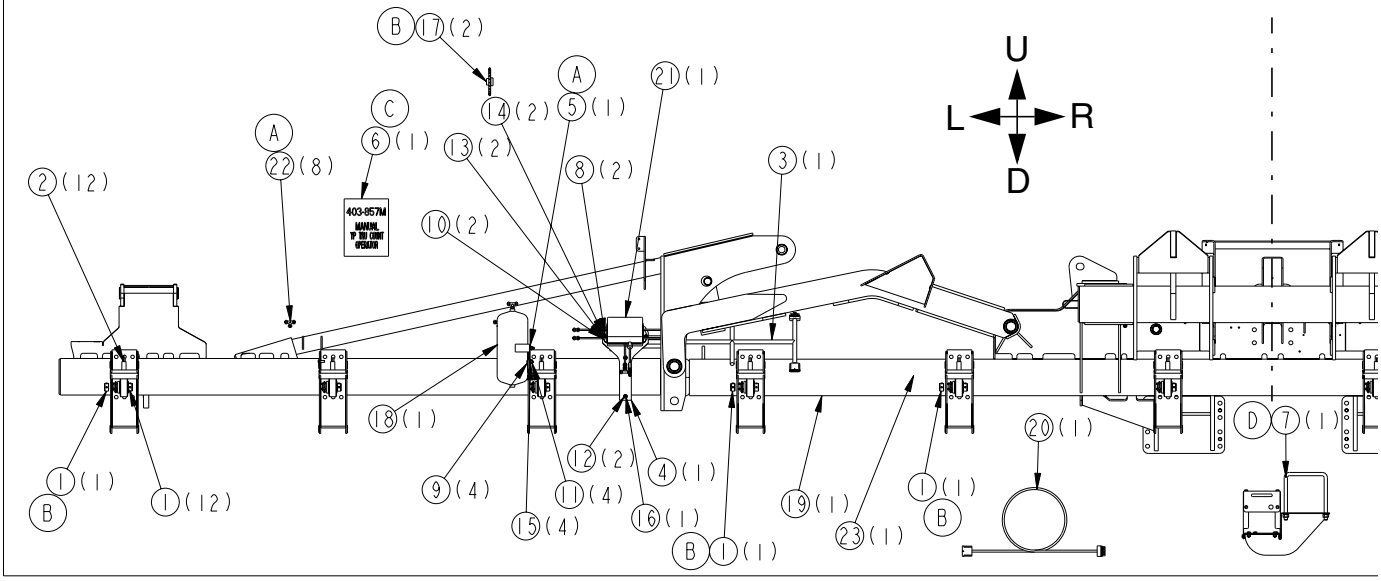
Kit: 402-392A Clutch Layout: 3PYP/A 12 Row

Layout applies to Planter Models: 3PYP-1236, 3PYP-1238, 3PYP-1240, 3PYPA-1236, 3PYPA-1238, 3PYPA-1240
Layout also applies to Option 57 factory bundle: 402-298A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12
Section	Left Wing			Center						Right Wing		
CFM Switch	(Depends on Drive Type: See Below)											
Ground Drive	1/Left				2/Center				3/Right			
Hydraulic Drv.	1/Left						2/Right					
WSMB-TCOM	Left Wing WSMB-TCOM											
TCOM Output[a]	Out 1		Out 2		Out 3		Out 5		Out 6		Out 7	
Valve Block	Left Wing Valve Block						Right Wing Valve Block					
Valve, Port[b]	V 1		V 2		V 3		V 1		V 2		V 3	
Tee	⊥		⊥		⊥		⊥		⊥		⊥	
Clutch	1	2	3	4	5	6	7	8	9	10	11	12
Clutch Type	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K
Row	01	02	03	04	05	06	07	08	09	10	11	12

a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 is unused on each block.



402-298A

Figure 76
LH: Kit: 402-392A Clutch Layout: 3PYP/A 12 Row

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	106	402-273K	TRU-COUNT SINGLE ROW ASM
3	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
4	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
5	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
6	204	403-857M	MANUAL YP TRU COUNT OPERATOR
7	213	404-867K	3PYP TC COMPRESSOR MOUNT ASM
8	222	802-005C	HHCS 1/4-20X1 GR5
9	224	802-017C	HHCS 3/8-16X1 GR5
10	237	803-006C	NUT HEX 1/4-20 PLT
11	238	803-014C	NUT HEX 3/8-16 PLT
12	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
13	242	804-006C	WASHER LOCK SPRING 1/4 PLT
14	243	804-007C	WASHER FLAT 1/4 SAE PLT
15	243	804-013C	WASHER FLAT 1/4 SAE PLT
16	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
17	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
18	262	823-329C	TRU-COUNT AIR TANK ASM
19	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
20	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
21	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
22	274	830-405C	TE POLY 1/4 PUSH LOCK
23	275	990-109R	TUBE NYLON 1/4OD X 062WL

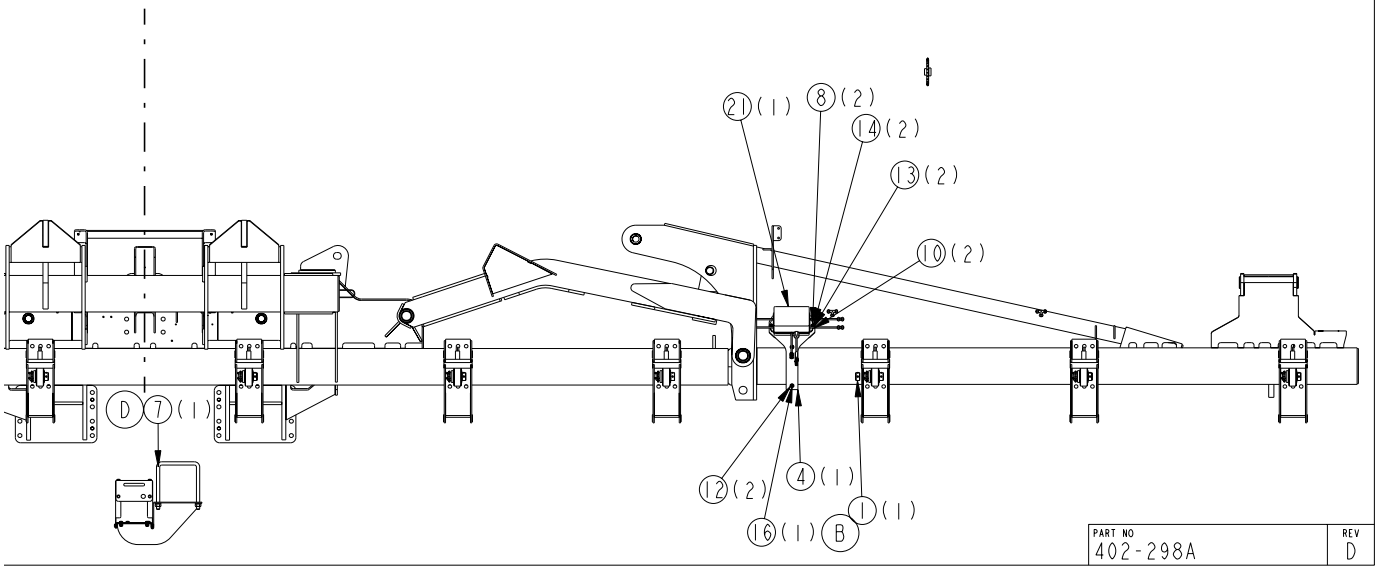


Figure 77
RH: Kit: 402-392A Clutch Layout: 3PYP/A 12 Row

402-298A

Kit: 402-400A Clutch Layout: YP3025/A 24-Row Twin

Layout applies to Planter Models: YP3025-24TR, YP3025-24TR70, YP3025A-24TR, YP3025A-24TR70
Layout also applies to Option 57 factory bundle: 402-333A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Section	1/Left								2/Center								3/Right							
CFM Switch	1/Left								2/Center								3/Right							
WSMB-TCOM	Left Wing WSMB-TCOM																							
TCOM Output[a]	Out 1				Out 2				Out 3				Out 5				Out 6				Out 7			
Valve Block	Left Wing Valve Block												Right Wing Valve Block											
Valve, Port[b]	V 1				V 2				V 3				V 1				V 2				V 3			
Tee	⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8		9		10		11		12	
Clutch Type	= 402-281K		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 is unused on each block.

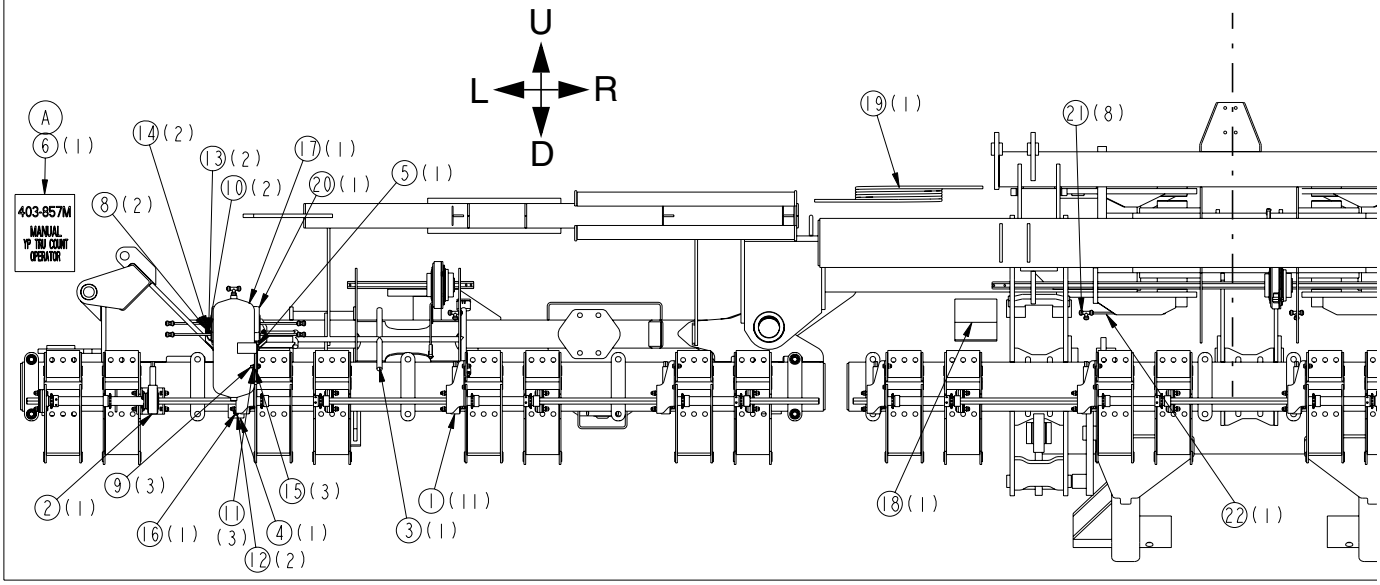
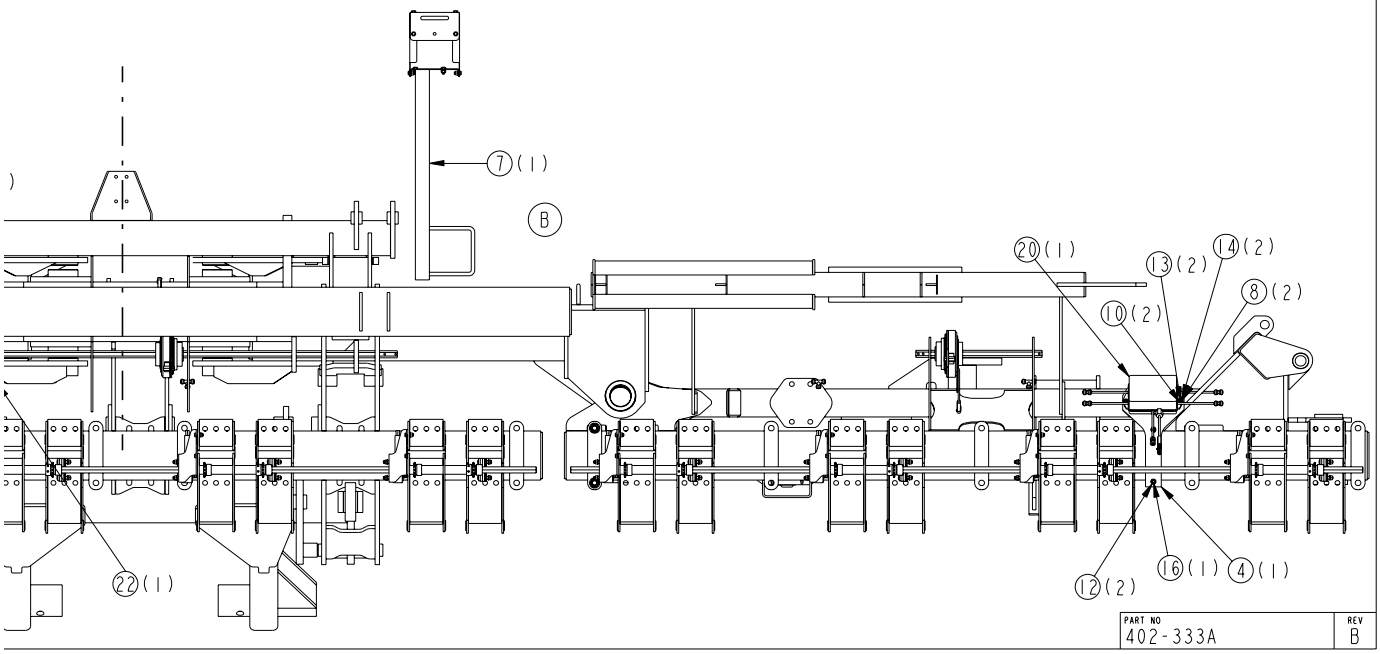


Figure 78
LH: Kit: 402-400A Clutch Layout: YP3025/A 24-Row Twin

402-333A

REF	c/o	PART NO	DESCRIPTION
1	115	402-279K	TRU-COUNT TR ASM
2	118	402-281K	TRU-COUNT TR REVERSE ASM
3	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
4	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
5	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
6	204	403-857M	MANUAL YP TRU COUNT OPERATOR
7	212	404-863K	TRU-COUNT COMP MOUNT ASM
8	222	802-005C	HHCS 1/4-20X1 GR5
9	224	802-017C	HHCS 3/8-16X1 GR5
10	237	803-006C	NUT HEX 1/4-20 PLT
11	238	803-014C	NUT HEX 3/8-16 PLT
12	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
13	242	804-006C	WASHER LOCK SPRING 1/4 PLT
14	243	804-007C	WASHER FLAT 1/4 SAE PLT
15	243	804-013C	WASHER FLAT 1/4 SAE PLT
16	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
17	262	823-329C	TRU-COUNT AIR TANK ASM
18	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
19	264	823-336C	EXTENSION HARNESS 25'6 PIN WP
20	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
21	274	830-405C	TE POLY 1/4 PUSH LOCK
22	275	990-109R	TUBE NYLON 1/4OD X 062WL



402-333A

Figure 79
RH: Kit: 402-400A Clutch Layout: YP3025/A 24-Row Twin

Kit: 402-401A Clutch Layout: YP3025/A 23-Row

Layout applies to Planter Models: YP3025-2315, YP3025A-2315
Layout also applies to Option 57 factory bundle: 402-334A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Section	Left Wing							Center									Right Wing						
CFM Switch	1/Left							2/Center									3/Right						
WSMB-TCOM	Left Wing WSMB-TCOM																						
TCOM Output[a]	Out 1				Out 2			Out 3					Out 5				Out 6				Out 7		
Valve Block	Left Wing Valve Block												Right Wing Valve Block										
Valve, Port[b]	V 1				V 2			V 3					V 1				V 2			V 3			
Tee	I				I			⊥					I				I			I			
Tee	⊥				⊥			⊥				I	⊥				⊥			⊥			
Clutch	1		2		3		4	5		6		7	8		9		10		11	12		13	
Clutch Type	402-275K =		402-275K =		402-275K =		402-273K	= 402-276K		= 402-276K		402-273K	402-275K =		402-275K =		402-273K	= 402-276K		= 402-276K		= 402-276K	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23

a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 is unused on each block.

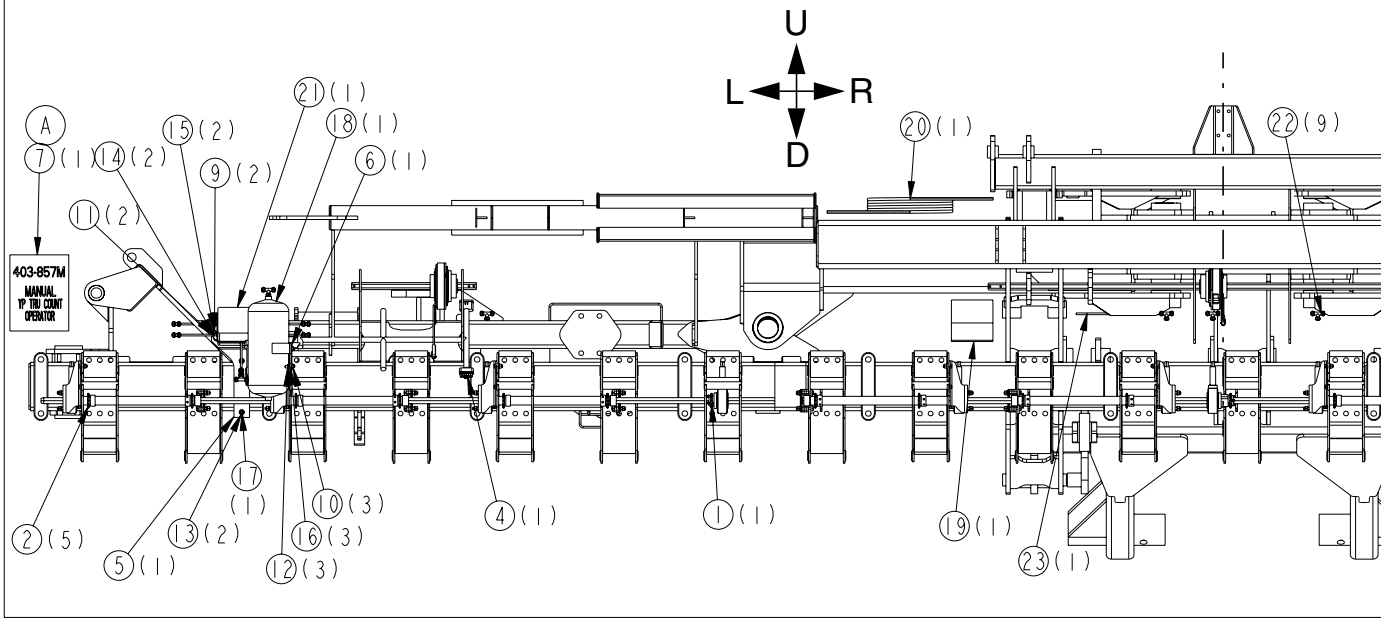
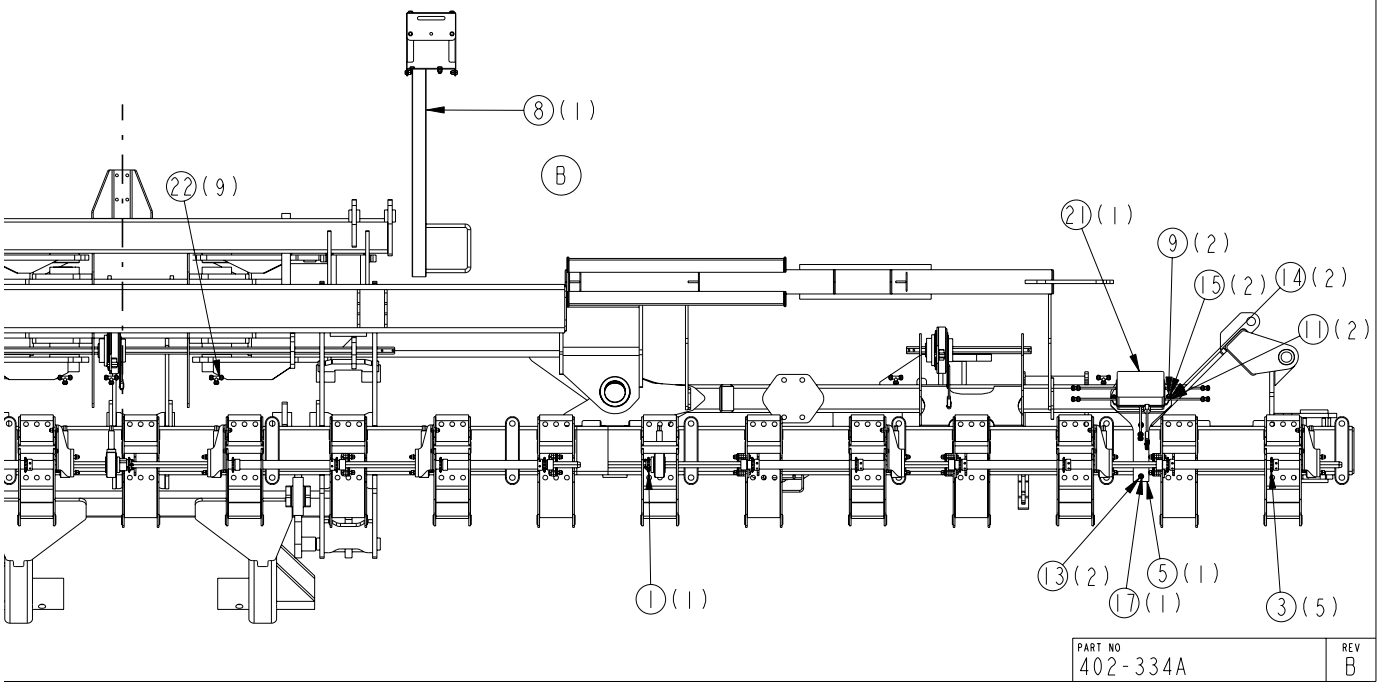


Figure 80
LH: Kit: 402-401A Clutch Layout: YP3025/A 23-Row

402-334A

REF	c/o	PART NO	DESCRIPTION
1	106	402-273K	TRU-COUNT SINGLE ROW ASM
2	109	402-275K	TRU-COUNT 15 IN ASM
3	111	402-276K	TRU-COUNT 15 IN LH ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
6	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
7	204	403-857M	MANUAL YP TRU COUNT OPERATOR
8	212	404-863K	TRU-COUNT COMP MOUNT ASM
9	222	802-005C	HHCS 1/4-20X1 GR5
10	224	802-017C	HHCS 3/8-16X1 GR5
11	237	803-006C	NUT HEX 1/4-20 PLT
12	238	803-014C	NUT HEX 3/8-16 PLT
13	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
14	242	804-006C	WASHER LOCK SPRING 1/4 PLT
15	243	804-007C	WASHER FLAT 1/4 SAE PLT
16	243	804-013C	WASHER FLAT 1/4 SAE PLT
17	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
18	262	823-329C	TRU-COUNT AIR TANK ASM
19	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
20	264	823-336C	EXTENSION HARNESS 25'6 PIN WP
21	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
22	274	830-405C	TE POLY 1/4 PUSH LOCK
23	275	990-109R	TUBE NYLON 1/4OD X 062WL



402-334A

Figure 81
RH: Kit: 402-401A Clutch Layout: YP3025/A 23-Row

Kit: 402-402A Clutch Layout: YP3025/A 24-Row 15-Inch

Layout applies to Planter Models: YP3025-2415, YP3025A-2415
Layout also applies to Option 57 factory bundle: 402-335A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Section	Left Wing							Center					Right Wing											
CFM Switch	Left/1									Center/2			Right/3											
WSMB-TCOM	Left Wing WSMB-TCOM																							
TCOM Output[a]	Out 1				Out 2					Out 3			Out 5				Out 6				Out 7			
Valve Block	Left Wing Valve Block												Right Wing Valve Block											
Valve, Port[b]	V 1				V 2					V 3			V 1				V 2				V 3			
Tee	⊥				⊥					⊥			⊥				⊥				⊥			
Clutch	1		2		3		4	5		6		7	8		9		10		11		12		13	
Clutch Type	402-275K =		402-275K =		402-275K =		402-273K =	402-276K =		402-276K =		402-329K =	402-275K =		402-275K =		402-275K =		402-275K =		402-275K =		402-275K =	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 is unused on each block.

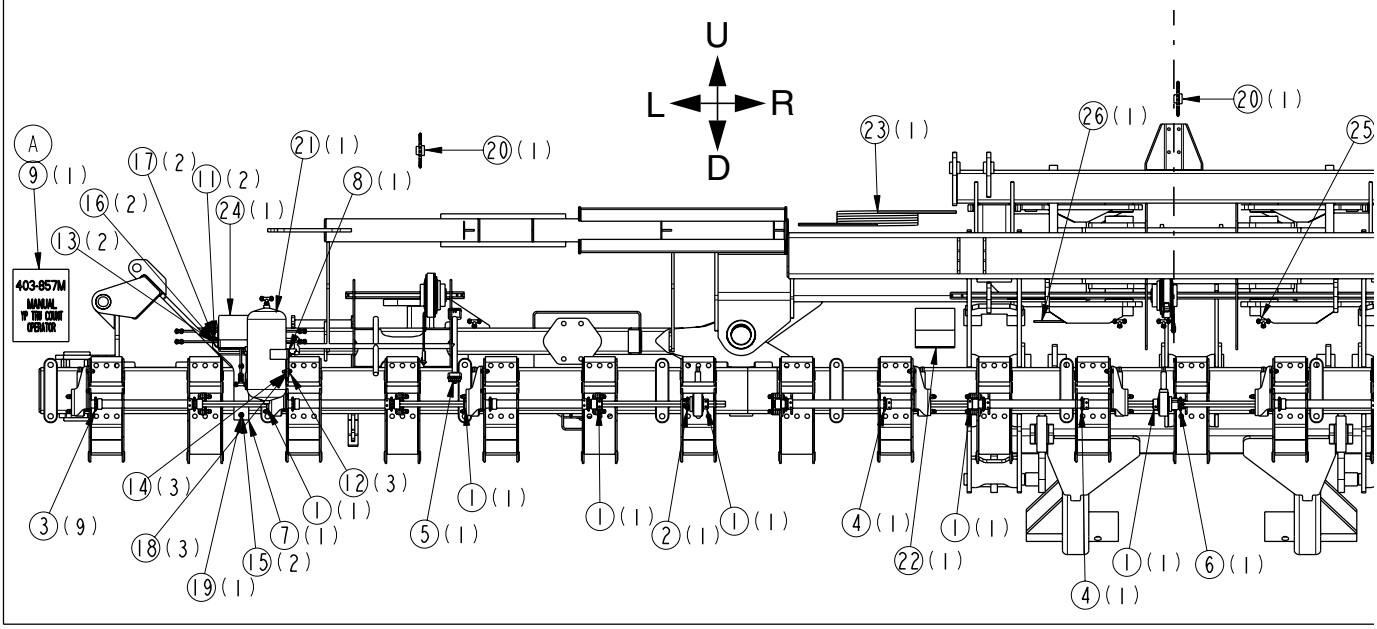


Figure 82
LH: Kit: 402-402A Clutch Layout: YP3025/A 24-Row 15-Inch

402-335A

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	106	402-273K	TRU-COUNT SINGLE ROW ASM
3	109	402-275K	TRU-COUNT 15 IN ASM
4	111	402-276K	TRU-COUNT 15 IN LH ASM
5	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
6	144	402-329K	TRU-COUNT SHORT ROW SINGLE ASM
7	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
8	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
9	204	403-857M	MANUAL YP TRU COUNT OPERATOR
10	212	404-863K	TRU-COUNT COMP MOUNT ASM
11	222	802-005C	HHCS 1/4-20X1 GR5
12	224	802-017C	HHCS 3/8-16X1 GR5
13	237	803-006C	NUT HEX 1/4-20 PLT
14	238	803-014C	NUT HEX 3/8-16 PLT
15	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
16	242	804-006C	WASHER LOCK SPRING 1/4 PLT
17	243	804-007C	WASHER FLAT 1/4 SAE PLT
18	243	804-013C	WASHER FLAT 1/4 SAE PLT
19	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
20	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
21	262	823-329C	TRU-COUNT AIR TANK ASM
22	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
23	264	823-336C	EXTENSION HARNESS 25'6 PIN WP
24	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
25	274	830-405C	TE POLY 1/4 PUSH LOCK
26	275	990-109R	TUBE NYLON 1/4OD X 062WL

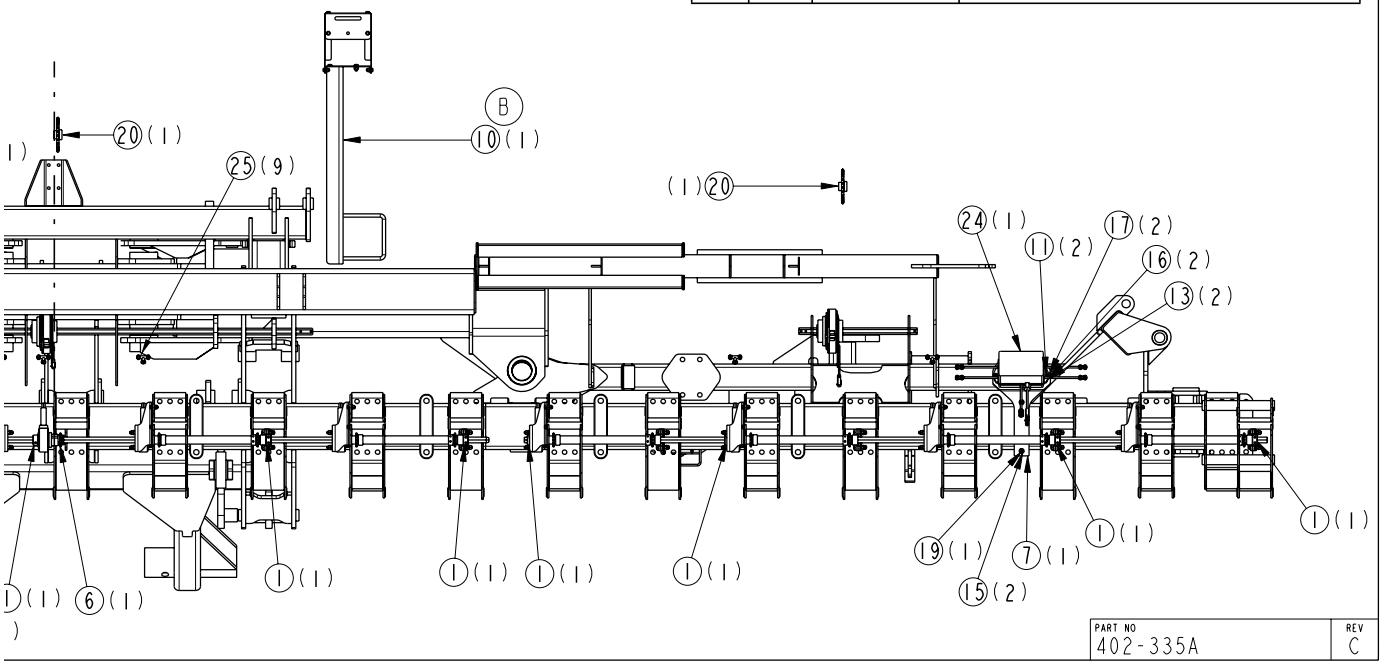


Figure 83
RH: Kit: 402-402A Clutch Layout: YP3025/A 24-Row 15-Inch

402-335A

Kit: 402-403A Clutch Layout: YP3025/A 12-Row

Layout applies to Planter Models: YP3025-1230, YP3025-1270, YP3025A-1230, YP3025A-1270
Layout also applies to Option 57 factory bundle: 402-336A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12
Section	Left Wing				Center				Right Wing			
CFM Switch	1/Left				2/Center				3/Right			
WSMB-TCOM	Left Wing WSMB-TCOM											
TCOM Output[a]	Out 1		Out 2		Out 3		Out 5		Out 6		Out 7	
Valve Block	Left Wing Valve Block						Right Wing Valve Block					
Valve, Port[b]	V 1		V 2		V 3		V 1		V 2		V 3	
Tee	⊥		⊥		⊥		⊥		⊥		⊥	
Clutch	1	2	3	4	5	6	7	8	9	10	11	12
Clutch Type	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K
Row	01	02	03	04	05	06	07	08	09	10	11	12

a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 is unused on each block.

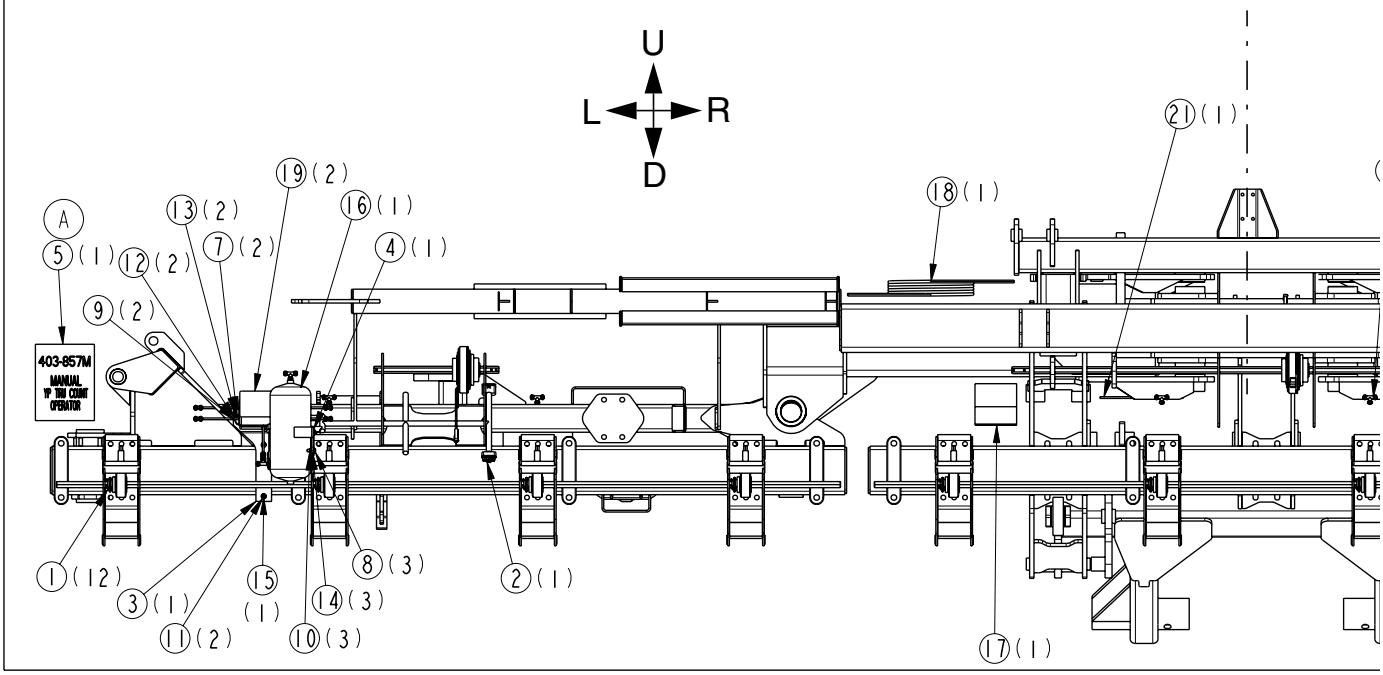


Figure 84
LH: Kit: 402-403A Clutch Layout: YP3025/A 12-Row

402-336A

REF	c/o	PART NO	DESCRIPTION
1	106	402-273K	TRU-COUNT SINGLE ROW ASM
2	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
3	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
4	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
5	204	403-857M	MANUAL YP TRU COUNT OPERATOR
6	212	404-863K	TRU-COUNT COMP MOUNT ASM
7	222	802-005C	HHCS 1/4-20X1 GR5
8	224	802-017C	HHCS 3/8-16X1 GR5
9	237	803-006C	NUT HEX 1/4-20 PLT
10	238	803-014C	NUT HEX 3/8-16 PLT
11	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
12	242	804-006C	WASHER LOCK SPRING 1/4 PLT
13	243	804-007C	WASHER FLAT 1/4 SAE PLT
14	243	804-013C	WASHER FLAT 1/4 SAE PLT
15	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
16	262	823-329C	TRU-COUNT AIR TANK ASM
17	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
18	264	823-336C	EXTENSION HARNESS 25'6 PIN WP
19	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
20	274	830-405C	TE POLY 1/4 PUSH LOCK
21	275	990-109R	TUBE NYLON 1/4OD X 062WL

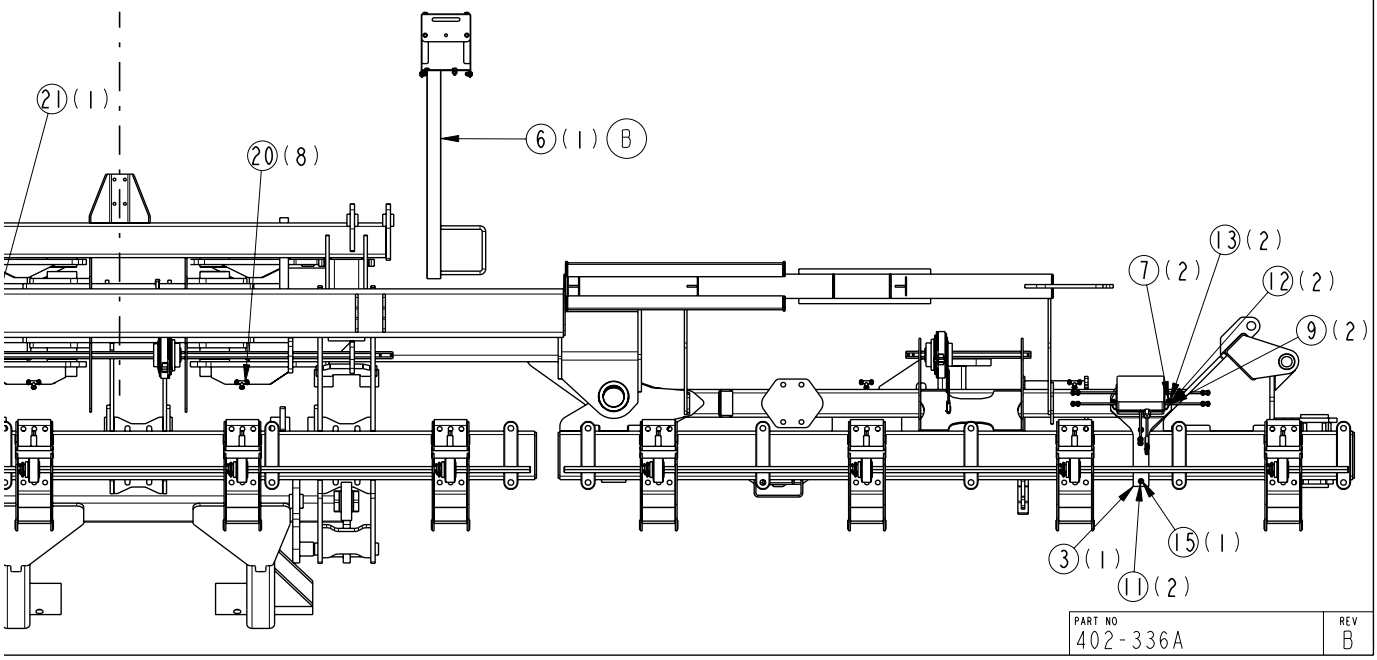


Figure 85
RH: Kit: 402-403A Clutch Layout: YP3025/A 12-Row

402-336A

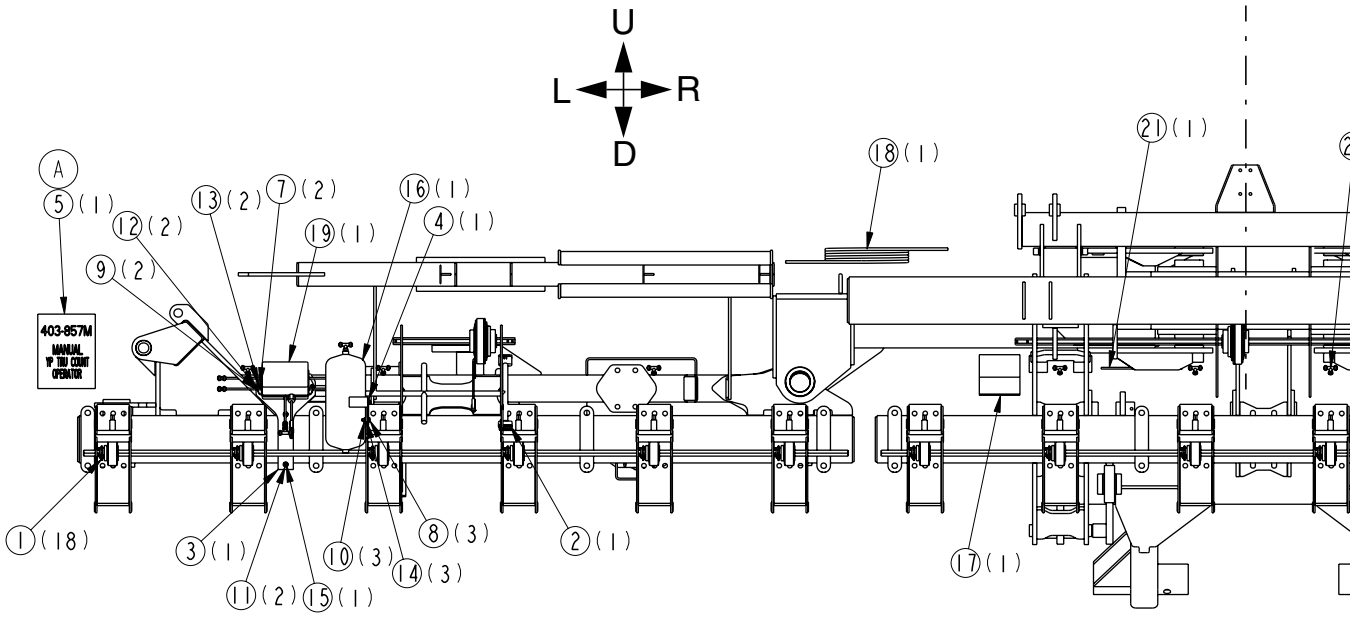
Kit: 402-404A Clutch Layout: YP3025/A 18-Row

Layout applies to Planter Models: YP3025-1820, YP3025A-1820
Layout also applies to Option 57 factory bundle: 402-337A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
Section	Left Wing						Center						Right Wing					
CFM Switch	1/Left						2/Center						3/Right					
WSMB-TCOM	Left Wing WSMB-TCOM																	
TCOM Output[a]	Out 1			Out 2			Out 3			Out 5			Out 6			Out 7		
Valve Block	Left Wing Valve Block									Right Wing Valve Block								
Valve, Port[b]	V 1			V 2			V 3			V 1			V 2			V 3		
Tee	⊥			⊥			⊥			⊥			⊥			⊥		
Tee	I	⊥		I	⊥		I	⊥		I	⊥		I	⊥		I	⊥	
Clutch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Clutch Type	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K	402-273K
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18

a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 is unused on each block.



402-337A

Figure 86
LH: Kit: 402-404A Clutch Layout: YP3025/A 18-Row

REF	c/o	PART NO	DESCRIPTION
1	106	402-273K	TRU-COUNT SINGLE ROW ASM
2	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
3	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
4	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
5	204	403-857M	MANUAL YP TRU COUNT OPERATOR
6	212	404-863K	TRU-COUNT COMP MOUNT ASM
7	222	802-005C	HHCS 1/4-20X1 GR5
8	224	802-017C	HHCS 3/8-16X1 GR5
9	237	803-006C	NUT HEX 1/4-20 PLT
10	238	803-014C	NUT HEX 3/8-16 PLT
11	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
12	242	804-006C	WASHER LOCK SPRING 1/4 PLT
13	243	804-007C	WASHER FLAT 1/4 SAE PLT
14	243	804-013C	WASHER FLAT 1/4 SAE PLT
15	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
16	262	823-329C	TRU-COUNT AIR TANK ASM
17	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
18	264	823-336C	EXTENSION HARNESS 25'6 PIN WP
19	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
20	274	830-405C	TE POLY 1/4 PUSH LOCK
21	275	990-109R	TUBE NYLON 1/4OD X 062WL

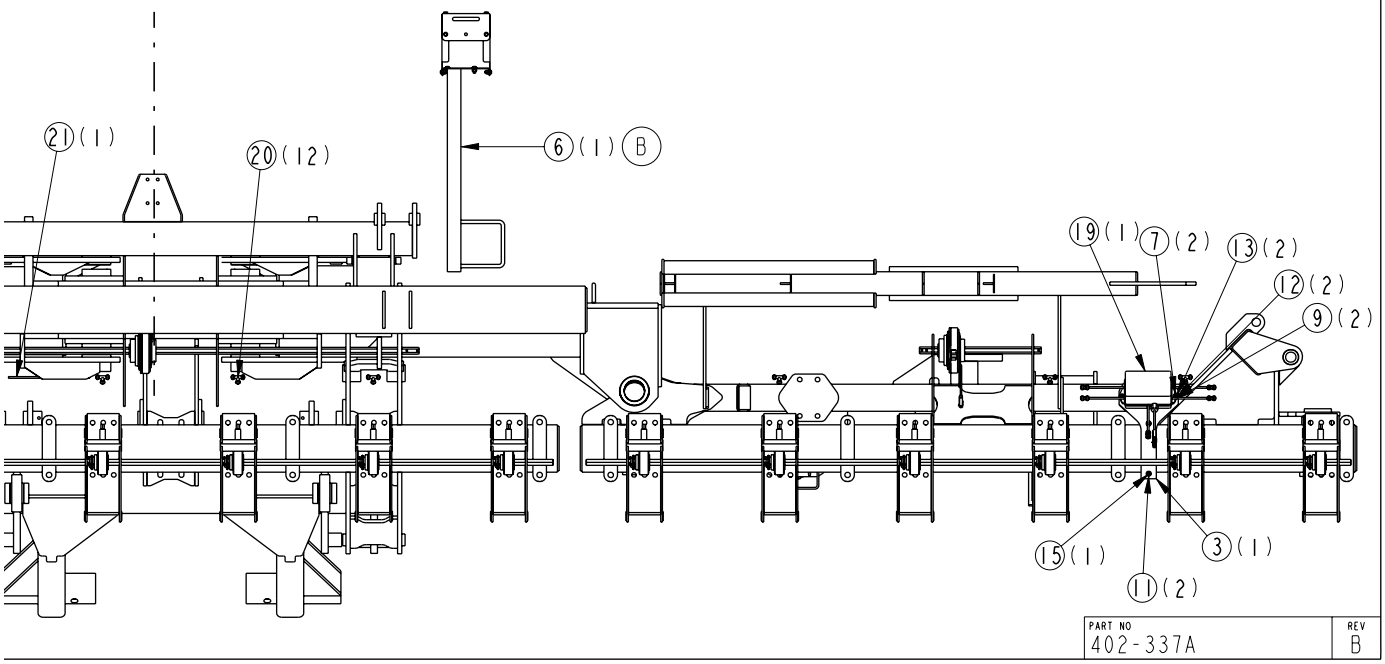


Figure 87
RH: Kit: 402-404A Clutch Layout: YP3025/A 18-Row

402-337A

Kit: 402-405A Clutch Layout: YP3025/A 16-Row Twin

Layout applies to Planter Models: YP3025-16TR36, YP3025A-16TR36

Layout also applies to Option 57 factory bundle: 402-338A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Section	Left Wing				Center								Right Wing			
CFM Switch	1/Left				2/Center								3/Right			
WSMB-TCOM	Left Wing WSMB-TCOM															
WSMB Output	Out 1				Out 2				Out 3				Out 4[a]			
Valve Block	Left Wing Valve Block															
Valve, Port	V 1				V 2				V 3				V 4			
Tee	⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8	
Clutch Type	402-279K =		402-279K =		= 402-281K		402-279K =		402-279K =		402-279K =		402-279K =		402-279K =	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16

a. WSMB-TCOM Outputs 5 through 8 are unused.

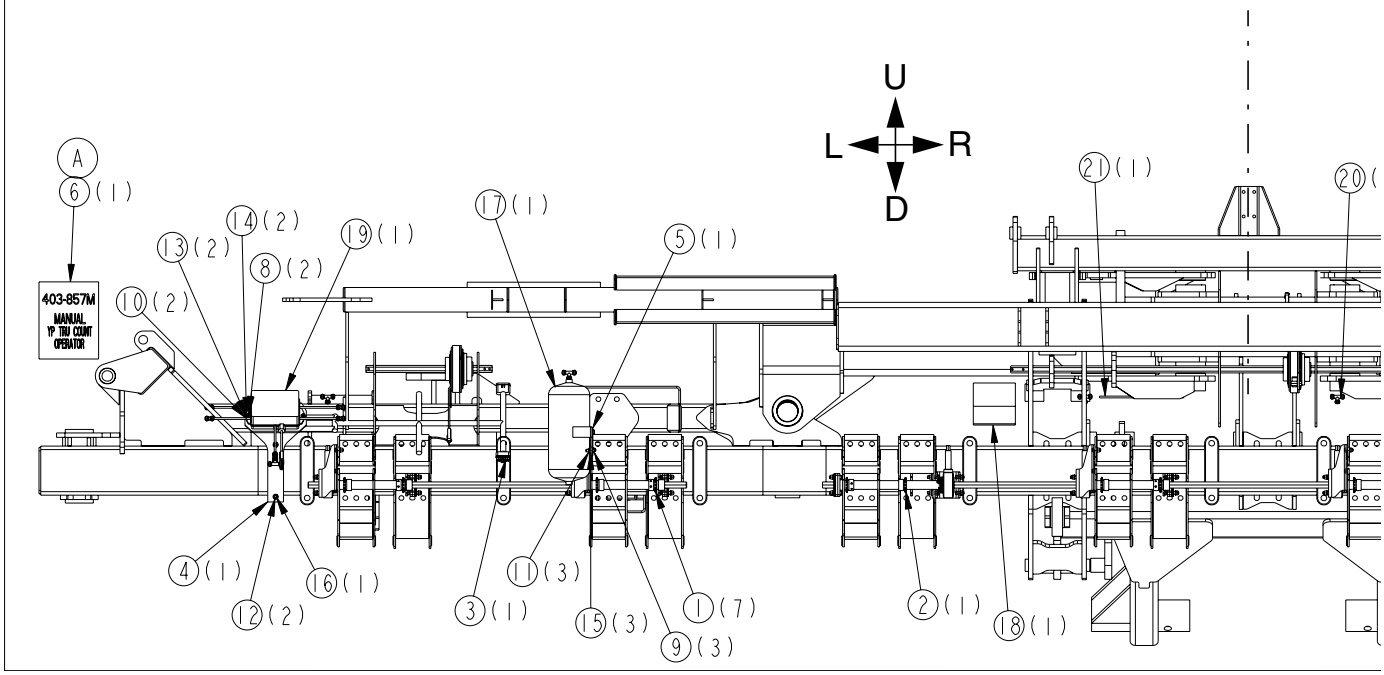


Figure 88
LH: Kit: 402-405A Clutch Layout: YP3025/A 16-Row Twin

402-338A

REF	c/o	PART NO	DESCRIPTION
1	115	402-279K	TRU-COUNT TR ASM
2	118	402-281K	TRU-COUNT TR REVERSE ASM
3	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
4	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
5	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
6	204	403-857M	MANUAL YP TRU COUNT OPERATOR
7	212	404-863K	TRU-COUNT COMP MOUNT ASM
8	222	802-005C	HHCS 1/4-20X1 GR5
9	224	802-017C	HHCS 3/8-16X1 GR5
10	237	803-006C	NUT HEX 1/4-20 PLT
11	238	803-014C	NUT HEX 3/8-16 PLT
12	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
13	242	804-006C	WASHER LOCK SPRING 1/4 PLT
14	243	804-007C	WASHER FLAT 1/4 SAE PLT
15	243	804-013C	WASHER FLAT 1/4 SAE PLT
16	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
17	262	823-329C	TRU-COUNT AIR TANK ASM
18	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
19	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
20	274	830-405C	TE POLY 1/4 PUSH LOCK
21	275	990-109R	TUBE NYLON 1/4OD X 062WL

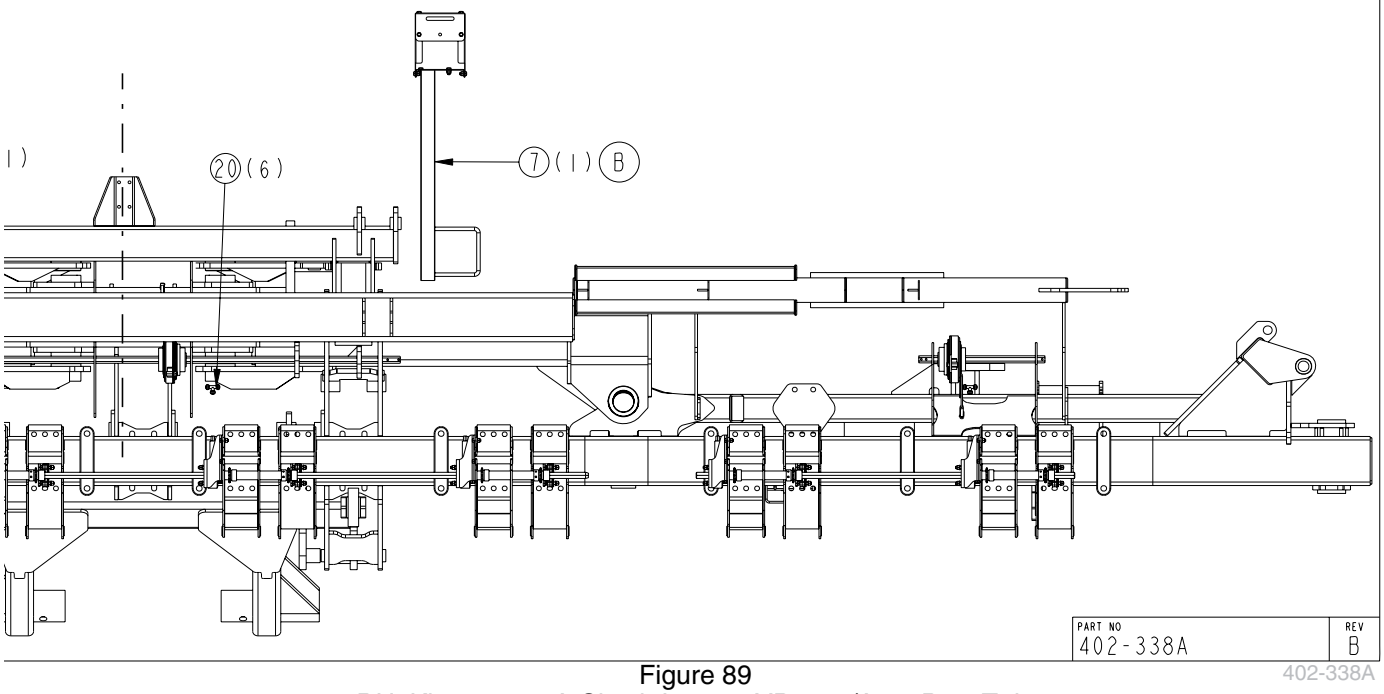


Figure 89
RH: Kit: 402-405A Clutch Layout: YP3025/A 16-Row Twin

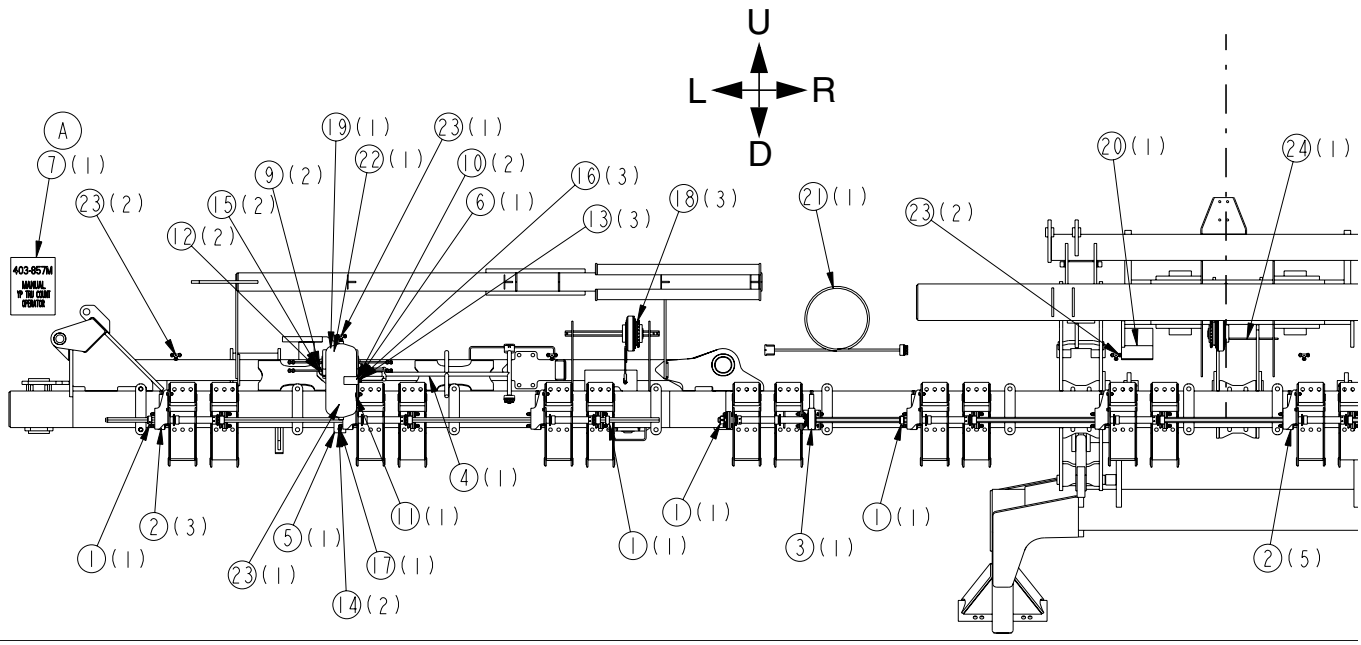
Kit: 402-406A Clutch Layout: YP4025/A 24-Row Twin

Layout applies to Planter Models: YP4025-24TR36, YP4025A-24TR36
Layout also applies to Option 57 factory bundle: 402-343A

Row Clutch Connections Map

Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Section	Left Wing								Center										Right Wing					
CFM Switch	1/Left								2/Center								3/Right							
WSMB-TCOM	Left Wing WSMB-TCOM																							
TCOM Output[a]	Out 1				Out 2				Out 3				Out 5				Out 6				Out 7			
Valve Block	Left Wing Valve Block												Right Wing Valve Block											
Valve, Port[b]	V 1				V 2				V 3				V 1				V 2				V 3			
Tee	⊥				⊥				⊥				⊥				⊥				⊥			
Clutch	1		2		3		4		5		6		7		8		9		10		11		12	
Clutch Type	═ 402-281K		═ 402-279K		═ 402-279K		═ 402-279K		═ 402-279K		═ 402-279K		═ 402-279K		═ 402-279K		═ 402-279K		═ 402-279K		═ 402-279K		═ 402-279K	
Row	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

a. WSMB-TCOM Outputs 4 and 8 are unused.
b. Valve Port 4 is unused on each block.



402-343A

Figure 90
LH: Kit: 402-406A Clutch Layout: YP4025/A 24-Row Twin

REF	c/o	PART NO	DESCRIPTION
1	101	402-025S	LOCK COLLAR, 7/8 HEX W/ SET SC
2	115	402-279K	TRU-COUNT TR ASM
3	118	402-281K	TRU-COUNT TR REVERSE ASM
4	143	402-305K	DJ 8 CHANNEL TRU-COUNT MOD ASM
5	195	402-533D	TRU-COUNT VALVE MODULE BRACKET
6	197	402-535D	TRU-COUNT AIR TANK MOUNT PLATE
7	204	403-857M	MANUAL YP TRU COUNT OPERATOR
8	212	404-863K	TRU-COUNT COMP MOUNT ASM
9	221	802-004C	HHCS 1/4-20X3/4 GR5
10	223	802-014C	HHCS 3/8-16X3/4 GR5
11	224	802-017C	HHCS 3/8-16X1 GR5
12	237	803-006C	NUT HEX 1/4-20 PLT
13	238	803-014C	NUT HEX 3/8-16 PLT
14	241	803-209C	NUT FLANGE LOCK 3/8-16 PLT
15	243	804-007C	WASHER FLAT 1/4 SAE PLT
16	243	804-013C	WASHER FLAT 1/4 SAE PLT
17	255	806-073C	U-BOLT 3/8-16 X 7 1/32 X 7 7/8
18	256	808-309C	SPKT 50C25 X 7/8 HEX BORE
19	262	823-329C	TRU-COUNT AIR TANK ASM
20	263	823-330C	TRU-COUNT COMPRESSOR ASSEMBLY
21	265	823-337C	EXTENSION HARNESS 40'6 PIN WP
22	272	829-140C	TRU-COUNT 75713-00 VALVE ASM
23	274	830-405C	TE POLY 1/4 PUSH LOCK
24	275	990-109R	TUBE NYLON 1/4OD X 062WL

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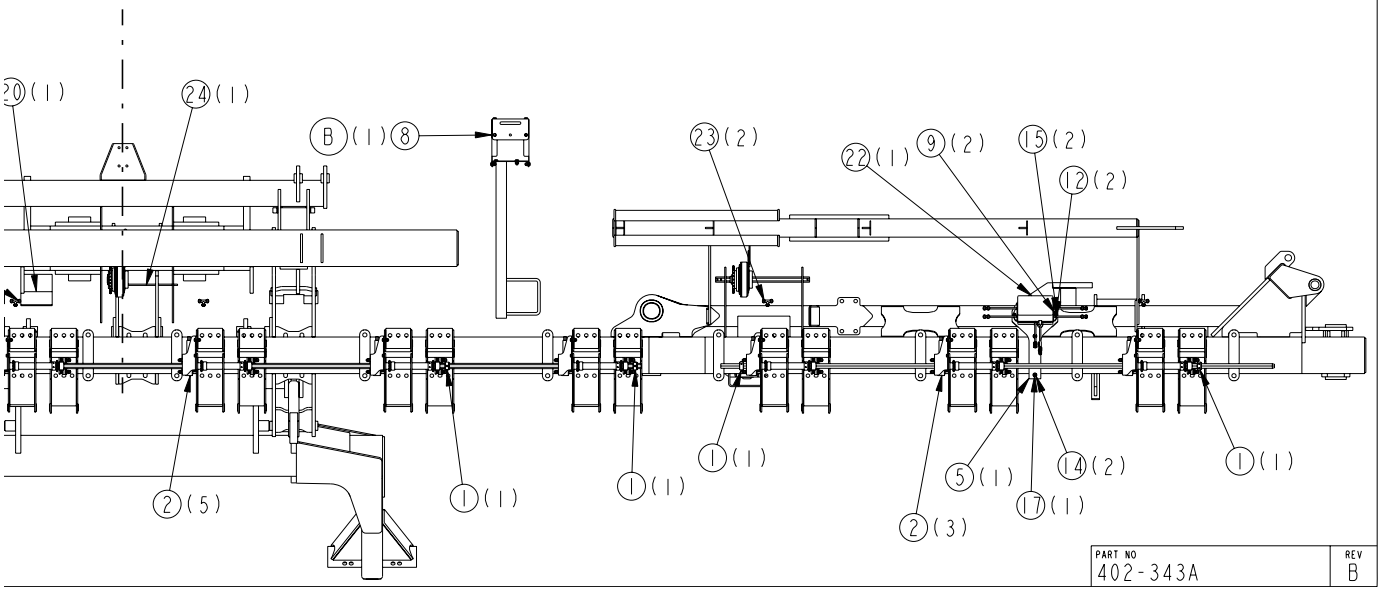

Figure 91
RH: Kit: 402-406A Clutch Layout: YP4025/A 24-Row Twin

402-343A

CANbus Module, Output and Row Assignments

Models YP1225-1230, YP1225A-1230

Channel 1 Units

X-coordinate: IN -226

CM -574

Y-coordinate: any 0

Clutch Module Screen

MODULE ADDR.	MODULE TYPE	# OF OUT	OUT #'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	—	—			
5	2	7 - 8			
6	2	9 - 10			
7	2	11 - 12			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	—				
5	2				
6	2				
7	2				
8	—				

32194A

Models YP1225-1820, YP1225A-1820

Channel 1 Units

X-coordinate: IN -222

CM -564

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	3	7 - 9			
5	3	10 - 12			
6	2	13 - 14			
7	2	15 - 16			
8	2	17 - 18			

Clutch Set Screen

OUT #	SW		OUT #	SW
1	1			
2	1			
3	1			
4	1			
5	2			
6	2			
7	2			
8	2			

32194B

Models YP1225-16TR36, YP1225A-16TR36

Channel 1 Units

X-coordinate: IN -219

CM -556

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	4	1 - 4

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	2				
4	2				

32194E

Models YP1225-2315, YP1225A-2315

Channel 1 Units

X-coordinate: IN -219

CM -556

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	—	—			
5	4	13 - 16			
6	4	17 - 20			
7	3	21 - 23			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	—				
5	2				
6	2				
7	2				
8	—				

32194C

Models YP1225-24TR, YP1225A-24TR

Channel 1 Units

X-coordinate: IN -219

CM -556

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	—	—			
5	4	13 - 16			
6	4	17 - 20			
7	4	21 - 24			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	—				
5	2				
6	2				
7	2				
8	—				

32194D

Models YP1625-1236, YP1625A-1236

Channel 1 Units

X-coordinate: IN -249

CM -632

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	—	—			
5	2	7 - 8			
6	2	9 - 10			
7	2	11 - 12			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW
1	1			
2	1			
3	1			
4	—			
5	2			
6	2			
7	2			
8	—			

32195A

Models YP1625-1630, YP1625A-1630, YP1625-1670, YP1625A-1670

Channel 1 Units

X-coordinate: IN -256

CM -650

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	2	7 - 8			
5	2	9 - 10			
6	2	11 - 12			
7	2	13 - 14			
8	2	15 - 16			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	1				
5	2				
6	2				
7	2				
8	2				

32195B

Models YP1625-2420, YP1625A-2420

Channel 1 Units

X-coordinate: IN -256

CM -650

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8
5	WSMB-TCOM	4	9 - 12

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	2	7 - 8			
5	2	9 - 10			
6	2	11 - 12			
7	2	13 - 14			
8	2	15 - 16			
9	2	17 - 18			
10	2	19 -20			
11	2	21 - 22			
12	2	23 - 24			

Clutch Set Screen

OUT #	SW	OUT #	SW
1	1		
2	1		
3	1		
4	1		
5	1		
6	1		
7	2		
8	2		
9	2		
10	2		
11	2		
12	2		

32195C

Models YP1625-24TR36, YP1625A-24TR36

Channel 1 Units

X-coordinate: IN -249

CM -632

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	—	—			
5	4	13 - 16			
6	4	17 - 20			
7	4	21 - 24			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	—				
5	2				
6	2				
7	2				
8	—				

32195E

Models YP1625-3115, YP1625A-3115

Channel 1 Units

X-coordinate: IN -249

CM -632

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			
5	4	17 - 20			
6	4	21 - 24			
7	4	25 - 28			
8	3	29 - 31			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	1				
5	2				
6	2				
7	2				
8	2				

32195D

Models YP1625-32TR, YP1625A-32TR

Channel 1 Units

X-coordinate: IN -249

CM -632

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			
5	4	17 - 20			
6	4	21 - 24			
7	4	25 - 28			
8	4	29 - 32			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	1				
5	2				
6	2				
7	2				
8	2				

32195F

Models YP2425-2430, YP2425A-2430, YP2425-2470, YP2425A-2470

Channel 1 Units

X-coordinate: IN -328

CM -833

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8
5	WSMB-TCOM	4	9 - 12

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	2	7 - 8			
5	2	9 - 10			
6	2	11 - 12			
7	2	13 - 14			
8	2	15 - 16			
9	2	17 - 18			
10	2	19 - 20			
11	2	21 - 22			
12	2	23 - 24			

Clutch Set Screen

OUT #	SW	OUT #	SW
1	1		
2	1		
3	1		
4	1		
5	2		
6	2		
7	2		
8	2		
9	3		
10	3		
11	3		
12	3		

32196A

Model YP2425F-2470

Channel 1 Units

X-coordinate: IN -321

CM -815

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8
5	WSMB-TCOM	4	9 - 12

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	2	7 - 8			
5	2	9 - 10			
6	2	11 - 12			
7	2	13 - 14			
8	2	15 - 16			
9	2	17 - 18			
10	2	19 - 20			
11	2	21 - 22			
12	2	23 - 24			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	1				
5	2				
6	2				
7	2				
8	2				
9	3				
10	3				
11	3				
12	3				

32196A

Models YP2425-3620, YP2425A-3620

Channel 1 Units

X-coordinate: IN -324

CM -823

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8
5	WSMB-TCOM	4	9 - 12

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	3	1 - 3			
2	3	4 - 6			
3	3	7 - 9			
4	3	10 - 12			
5	3	13 - 15			
6	3	16 - 18			
7	3	19 - 21			
8	3	22 - 24			
9	3	25 - 27			
10	3	28 - 30			
11	3	31 - 33			
12	3	34 - 36			

Clutch Set Screen

OUT #	SW	OUT #	SW
1	1		
2	1		
3	1		
4	1		
5	2		
6	2		
7	2		
8	2		
9	3		
10	3		
11	3		
12	3		

32196B

Models YP2425-4715, YP2425A-4715

Channel 1 Units

X-coordinate: IN -321

CM -815

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8
5	WSMB-TCOM	4	9 - 12

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			
5	4	17 - 20			
6	4	21 - 24			
7	4	25 - 28			
8	3	29 - 31			
9	4	32 - 35			
10	4	36 - 39			
11	4	40 - 43			
12	4	44 - 47			

Clutch Set Screen

OUT #	SW	OUT #	SW
1	1		
2	1		
3	1		
4	1		
5	2		
6	2		
7	2		
8	2		
9	3		
10	3		
11	3		
12	3		

32196C

Models YP2425-48TR, YP2425A-48TR

Channel 1 Units

X-coordinate: IN -321

CM -815

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8
5	WSMB-TCOM	4	9 - 12

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			
5	4	17 - 20			
6	4	21 - 24			
7	4	25 - 28			
8	4	29 - 32			
9	4	33 - 36			
10	4	37 - 40			
11	4	41 - 44			
12	4	45 - 48			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	1				
5	2				
6	2				
7	2				
8	2				
9	3				
10	3				
11	3				
12	3				

32196D

Models YP3025-1230, YP3025A-1230, YP3025-1270, YP3025A-1270

Channel 1 Units

X-coordinate: IN -233

CM -592

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	—	—			
5	2	7 - 8			
6	2	9 - 10			
7	2	11 - 12			
8	—	—			

Clutch Set Screen

	OUT #	SW		OUT #	SW	
	1	1				
	2	1				
	3	2				
	4	—				
	5	2				
	6	3				
	7	3				
	8	—				

32197A

Models YP3025-16TR36, YP3025A-16TR36

Channel 1 Units

X-coordinate: IN -226

CM -574

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	4	1 - 4

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			

Clutch Set Screen

OUT #	SW		OUT #	SW
1	1			
2	2			
3	2			
4	3			

32197B

Models YP3025-1820, YP3025A-1820

Channel 1 Units

X-coordinate: IN -229

CM -582

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	3	1 - 3			
2	3	4 - 6			
3	3	7 - 9			
4	—	—			
5	3	10 - 12			
6	3	13 - 15			
7	3	16 - 18			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	2				
4	—				
5	2				
6	3				
7	3				
8	—				

32197C

Models YP3025-2315, YP3025A-2315

Channel 1 Units

X-coordinate: IN -226

CM -574

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	3	5 - 7			
3	5	8 - 12			
4	—	—			
5	4	13 - 16			
6	3	17 - 19			
7	4	20 - 23			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW
1	1			
2	1			
3	2			
4	—			
5	2			
6	3			
7	3			
8	—			

32197D

Models YP3025-2415, YP3025A-2415

Channel 1 Units

X-coordinate: IN -226

CM -574

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	5	5 - 9			
3	3	10 - 12			
4	—	—			
5	4	13 - 16			
6	4	17 - 20			
7	4	21 - 24			
8	—	—			

Clutch Set Screen

	OUT #	SW		OUT #	SW	
	1	1				
	2	1				
	3	2				
	4	—				
	5	2				
	6	3				
	7	3				
	8	—				

32197E

Models YP3025-24TR, YP3025A-24TR, YP3025-24TR70, YP3025A-24TR70

Channel 1 Units

X-coordinate: IN -226

CM -574

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	—	—			
5	4	13 - 16			
6	4	17 - 20			
7	4	21 - 24			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW
1	1			
2	1			
3	2			
4	—			
5	2			
6	3			
7	3			
8	—			

32197F

Models YP4025-1630, YP4025A-1630, YP4025F-1630, YP4025-1670, YP4025A-1670, YP4025A-1670, YP4025F-1670

Channel 1	Units	
X-coordinate:	IN	-270
	CM	-686
Y-coordinate:	any	0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	2	7 - 8			
5	2	9 - 10			
6	2	11 - 12			
7	2	13 - 14			
8	2	15 - 16			

Clutch Set Screen

OUT #	SW		OUT #	SW
1	1			
2	1			
3	1			
4	2			
5	2			
6	3			
7	3			
8	3			

32198A

Models YP4025-2420, YP4025A-2420

Channel 1 Units

X-coordinate: IN -266

CM -676

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8
5	WSMB-TCOM	4	9 - 12

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	2	7 - 8			
5	2	9 - 10			
6	2	11 - 12			
7	2	13 - 14			
8	2	15 - 16			
9	2	17 - 18			
10	2	19 - 20			
11	2	21 - 22			
12	2	23 - 24			

Clutch Set Screen

OUT #	SW	OUT #	SW
1	1		
2	1		
3	1		
4	1		
5	2		
6	2		
7	2		
8	2		
9	3		
10	3		
11	3		
12	3		

32198B

Models YP4025-24TR36, YP4025A-24TR36

Channel 1 Units

X-coordinate: IN -263

CM -668

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	—	—			
5	4	13 - 16			
6	4	17 - 20			
7	4	21 - 24			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	2				
4	—				
5	2				
6	3				
7	3				
8	—				

32198F

Models YP4025-3115, YP4025A-3115

Channel 1 Units

X-coordinate: IN -263

CM -668

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			
5	4	17 - 20			
6	3	21 - 23			
7	4	24 - 27			
8	4	28 - 31			

Clutch Set Screen

OUT #	SW		OUT #	SW
1	1			
2	1			
3	1			
4	2			
5	2			
6	3			
7	3			
8	3			

32198C

Models YP4025-3215, YP4025A-3215

Channel 1 Units

X-coordinate: IN -263

CM -668

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			
5	4	17 - 20			
6	3	21 - 23			
7	4	24 - 27			
8	5	28 - 32			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	2				
5	2				
6	3				
7	3				
8	3				

32198D

Models YP4025-32TR, YP4025A-32TR, YP4025-32TR70, YP4025A-32TR70

Channel 1 Units

X-coordinate: IN -263

CM -668

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			
5	4	17 - 20			
6	4	21 - 24			
7	4	25 - 28			
8	4	29 - 32			

Clutch Set Screen

OUT #	SW		OUT #	SW	
1	1				
2	1				
3	1				
4	2				
5	2				
6	3				
7	3				
8	3				

32198E

Models 3PYP-1236, 3PYPA-1236, 3PYP-1238, 3PYPA-1238, 3PYP-1240, 3PYPA-1240

Channel 1 Units

X-coordinate: IN -43

CM -109

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	—	—			
5	2	7 - 8			
6	2	9 - 10			
7	2	11 - 12			
8	—	—			

Clutch Set Screen

OUT #	SW	OUT #	SW
1	1	1	1
2	1	2	1
3	2	3	1
4	—	4	—
5	2	5	2
6	3	6	2
7	3	7	2
8	—	8	—
Ground Drive Units		Hydraulic Drive Units	

32199A

Models 3PYP-1630, 3PYPA-1630

Channel 1 Units

X-coordinate: IN -57

CM -145

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	2	1 - 2			
2	2	3 - 4			
3	2	5 - 6			
4	2	7 - 8			
5	2	9 - 10			
6	2	11 - 12			
7	2	13 - 14			
8	2	15 - 16			

Clutch Set Screen

	OUT #	SW		OUT #	SW
	1	1		1	1
	2	1		2	1
	3	2		3	1
	4	2		4	1
	5	2		5	2
	6	2		6	2
	7	3		7	2
	8	3		8	2
	Ground Drive Units			Hydraulic Drive Units	

32199B

32199x

Models 3PYP-24TR36, 3PYPA-24TR36

Channel 1 Units

X-coordinate: IN -50

CM -127

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	—	—			
5	4	13 - 16			
6	4	17 - 20			
7	4	21 - 24			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW
1	1		1	1
2	1		2	1
3	2		3	1
4	—		4	—
5	2		5	2
6	3		6	2
7	3		7	2
8	—		8	—
Ground Drive Units			Hydraulic Drive Units	

32199C

Models 3PYP-24TR38, 3PYPA-24TR38

Channel 1 Units

X-coordinate: IN -50

CM -127

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	—	—			
5	4	13 - 16			
6	4	17 - 20			
7	4	21 - 24			
8	—	—			

Clutch Set Screen

OUT #	SW	OUT #	SW
1	1	1	1
2	1	2	1
3	2	3	1
4	—	4	—
5	2	5	2
6	3	6	2
7	3	7	2
8	—	8	—
Ground Drive Units		Hydraulic Drive Units	

32199D

Models 3PYP-24TR40, 3PYPA-24TR40

Channel 1 Units

X-coordinate: IN -50

CM -127

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	—	—			
5	4	13 - 16			
6	4	17 - 20			
7	4	21 - 24			
8	—	—			

Clutch Set Screen

OUT #	SW		OUT #	SW
1	1		1	1
2	1		2	1
3	2		3	1
4	—		4	—
5	2		5	2
6	3		6	2
7	3		7	2
8	—		8	—
Ground Drive Units			Hydraulic Drive Units	

32199E

Models 3PYP-3115, 3PYPA-3115

Channel 1 Units

X-coordinate: IN -50

CM -127

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			
5	4	17 - 20			
6	4	21 - 24			
7	4	25 - 28			
8	3	29 - 31			

Clutch Set Screen

OUT #	SW	OUT #	SW
1	1	1	1
2	1	2	1
3	2	3	1
4	2	4	1
5	2	5	2
6	2	6	2
7	3	7	2
8	3	8	2
Ground Drive Units		Hydraulic Drive Units	

32199F

Models 3PYP-32TR30, 3PYPA-32TR30

Channel 1 Units

X-coordinate: IN -50

CM -127

Y-coordinate: any 0

Clutch Module Screen

MODULE		# OF	OUT
ADDR.	TYPE	OUT	#'S
2	WSMB-TCOM	8	1 - 8

Clutch Configuration

OUT #	# OF ROWS	ROW #'S	OUT #	# OF ROWS	ROW #'S
1	4	1 - 4			
2	4	5 - 8			
3	4	9 - 12			
4	4	13 - 16			
5	4	17 - 20			
6	4	21 - 24			
7	4	25 - 28			
8	4	29 - 32			

Clutch Set Screen

OUT #	SW		OUT #	SW
1	1		1	1
2	1		2	1
3	2		3	1
4	2		4	1
5	2		5	2
6	2		6	2
7	3		7	2
8	3		8	2
Ground Drive Units			Hydraulic Drive Units	

32199G

Abbreviations

#41	Chain type
#50	Chain type
A5	Section Control console model
ASM	Assembly
BRG	Bearing
BSHG	Bushing
CAN	Controller Area Network
CH	Channel
CNTRL	Control
CP	Coupler
D	Diameter
DJ	DICKEY-john®
DJIA	DICKEY-john® IntelliAg®
FLD	Field
FLG	Flanged
FRT	Front
FTHD	Full Thread
GR5	Grade 5
GRV	Groove or grooved
GS2	John Deere® Greenstar™ 2
HARN	Harness
HEX	Hexagonal
HHCS	Hex Head Cap Screw (Bolt)
HSHCS	Hex Socket Head Cap Screw
ID	Inside Diameter
JD	John Deere®
KP	Knurled cup Point
L	Length
LG	Long
LH	Left Hand
MNPT	Male NPT
MNT	Mount

NPT	National Pipe Thread
OD	Outside Diameter
OGURA	Clutch brand
PL	Plated
PLNTR	Planter
PLT	Plated
POLY	Polymer
POM	Planter Output Module
RECT	Rectangular
RH	Right Hand
RL	Roller
RND	Round
RTK	Real Time Kinematics
SAE	Society of Automotive Engineers
SC	Screw
SET SC	Set Screw
SKT	Socket
SNGL	Single
SPCL	Special
SPKT	Sprocket
SS	Set Screw
TC	Tru Count
TCOM	Tru Count Output Module
TE	Tee
TR	Twin Row
TYP	Typical
VT	Virtual Terminal
W/	with
WP	weather pak
WSMB	Working Set Member
X	by
YP	Yield-Pro®

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